



SEQUENCE LISTING

<110> Sun, Yongming
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<120> Compositions and Methods Relating to Colon Specific Genes and Proteins

<130> DEX-0253

<140> US 10/016,157
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<151> 2000-10-31

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<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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 aagaactcat tatataccaa agtaggagct tgctgacact gataatgctt tatttagttt 420
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 tgtcttgtgt gttaagagca ttaaatagtc ataccctta gcctagtgtg tcttctatcc 600
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<210> 16
 <211> 984
 <212> DNA
 <213> Homo sapiens

<400> 16
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 acttggtggc attgagcctc ctgtgtaaaag caccgacgtc attctgtagt tgatcatcact 180
 gtattcaggg tgattctaca cgtaggagtg agcatttgac agcttccatg tcttctagtg 240
 cggctgagaa ttacatatt aagatacaca ttatttatta tcaattactt tctgtttca 300
 atgtccattt agagcactaa aaatatcttt gtaggtagtt gatattactt atgaatttta 360
 tttcaggaga gcaaaggaaa atacaagata gttgtatgaa aagggggcac cgggtgtgct 420


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<210> 17
<211> 429
<212> DNA
<213> Homo sapiens

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<400> 17
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gcctcctgca tcaacttctt gatggagagt gtatgaatgc aaaagctcct cccttagcac 180
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ttaaaatcca gagtttatgg ctttttaaaa ataacctctc acctatttat caaaagctcc 300
ttctaaataa tatttacaac aacaacaatg ataatggcta ctatctagta tttccattt 360
tccagacact gtgctgggct ctttccaaac actgttttaa tctttacaa caccagttcc 420
gccgctcta 429

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<210> 18
<211> 734
<212> DNA
<213> Homo sapiens

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<400> 18
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agaaaataat tttctagaat ttgaagaaaa atcttaaaac atttgaaatt ctttgttatg 180
atgactaata taacgaatag cactcagggt tatcaaatac taacattttt ccatatttgt 240
tatagaatct ttttccatat ttgctacaga aataatttct ttatatatat aatacatatt 300

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tattttctag	aaaataaata	ctgggtctaca	atgccttata	tgtcatttca	aagtctctaa	480
aaagatctga	aaatccaatg	cctttttaaaa	ataaaattac	ggtaatctca	tttggccaca	540
aaacctgttc	agaattgatg	tgaggctatt	aagatattta	tttctcttat	ttattagtga	600
atattcatct	ttcactacag	aaataactaac	gagtttgatt	acagggtgct	ttagacttcc	660
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<210> 19

<211> 1184

<212> DNA

<213> Homo sapiens

<400> 19

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attatttttc	catctagatg	cttttttttaa	agaaatgaag	agaatatgta	atgtttttaa	240
tgtacatttt	agtttgattt	aaattttaat	caaggatttt	tattttatac	attacatact	300
gatcactgtt	ttatgttaac	tctggtccta	ataaacagaa	aataacaatt	tggaatatct	360
acaacaatga	gagctcgagg	taaaatatag	cataaataag	acatatatgt	gtatgaactg	420
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aggattattt	gcattcttac	acctggggcac	tcttctcttt	tgctgaatac	cagtttttca	540
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aataatttct	ttatatatat	aatacatatt	tgaacactga	ttttacttga	tacattaata	780
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aagatattta	tttctcttat	ttattagtga	atattcatct	ttcactacag	aaataactaac	1080
gagtttgatt	acagggtgct	ttagacttcc	ctcaaggtgt	acatatttgc	tactttttctc	1140

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1184

<210> 20
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 20
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 tctccaaatc catgtttacc cagtcctcct taatgctgcc ttccaaactg tcagcgggtg 240
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 catctccccc caggcatgga cctccccaat ttaccctgtg aaggctgcat ggagaagatg 420
 caggtcttag gaacagccag catcaccaga ggtgccactt agtgagtacc cagtgggctc 480
 ccaacaccgt gctgagctcc cagtgggaga accggaaccg tctgcctgtt ctctgttgta 540
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<210> 21
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 21
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 tgcagctttg ctccaaagca cactctggca gaccttggcc agatgcctgg cacaggggct 180
 ggggagggaa aggctgccc aacccccgtt tccctttgca gatgagcatt ctccaaatcc 240
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<210> 22
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 22
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 taataaaaact taaaagggat ggacacagat tgaaaaaggc cttgagtgcc aagacaagag 180
 ctctgaactt taacaggcac tggaaaccgt cataggtctt aggtaggaat atgctgtgct 240
 cccaccatct taattaggtc ttatggagggt ttgatagcaa gagggtagga atatcattta 300
 gcaggctact gcaagtatcc aggtgaaatg tacagagggt ttgaactagg ctgctgggga 360
 ggggtgcagag aagaaatatt ttggaaataa aatggacaga aagtgtataa atggataaag 420
 agaggaatag aactgacacc aggcttcaag cctgatgcct gagaataaag gtgtaattat 480
 gaaggggaatc caggaagaca tggaaagagt ggttggagta aggttaaagt gatagtttta 540
 gattgggtta ttttgacgtt gaagtgttga ccaacttctt aagtgaaaat gtgcaacagt 600
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<210> 23
 <211> 711
 <212> DNA
 <213> Homo sapiens

<400> 23
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 tatttttttat attttctttg cttgtaaaga gttattatca atttgtaagt ataaaaactg 180
 caagtatagt tggtagttga taagaaagggt agataataaa acttaaaagg gatggacaca 240
 gattgaaaaa ggccttgagt gccaaagaca gagctctgaa ctttaacagg cactggaaac 300
 cgtcataggt cttaggtagg aatatgctgt gctcccacca tcttaattag gtcttatgga 360
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 agtgggttga gtaagggtta agtgatagtt ttagattggg ttattttgac gttgaagtgt 660
 tgaccaactt cttaagtga aatgtgcaac agtcattgaa aatatgagtt t 711

<210> 24
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 24
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aataataatt ttatagaatt tttcatttta tggcaggcac agggctcatg cctgtaatcc 540
cagcact 547

<210> 25
<211> 549
<212> DNA
<213> Homo sapiens

<400> 25
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gagatgggg 549

<210> 26
<211> 350
<212> DNA
<213> Homo sapiens

<400> 26
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gatggcttac gtgcagggtg atgtatgaac cttcccaagc tctgtacaaa tataacttgt 180

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cattcgtaga gacgtatgta tttatatgtg tgcattgcagt cttatattgta gattttcttc 240
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gcaggcagtg aaaccgtgga ctcagctgct ctttccttct ttcctcccca 350

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<210> 27
<211> 627
<212> DNA
<213> Homo sapiens

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<210> 28
<211> 548
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=a, c, g or t

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atgttgatag aaaaatgggt tgatggcagc atatatccag attgtagatt tcataatatt 420

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aaaggggagt gggcaaataa taaaatgcaa gaaatgaaag catttgaaaa tttagaggac 480
 agaaatgact ttttaagtaag tgatttttagg tgtactggaa tgagtaatct agaataatttg 540
 atatgaga 548

<210> 29
 <211> 988
 <212> DNA
 <213> Homo sapiens

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 tatctcatga gtagcctaag aaaaaagc 988

<210> 30
 <211> 651
 <212> DNA
 <213> Homo sapiens

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 aaaaagtcca acacatttgg ggctggacac accagtcaaa tgggtgaaat tagaagatgg 180

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ggaaaaaata tgtcaggtaa atacttttatt tcattgggatt tatgacttcc cctgtaagaa      240
gcattattat tttatataaa tacccaaaaa aaaaaaaciaa caaaggcagc taaattctga      300
aattaattgc atatgcatca tgatttcaga tatattaaac tgtgaaaaaa gtgcgttaaa      360
atggtaaagc acaataatca aaataaagtt tgtatagcaa tattaatatc acataaaaata      420
taaattagaa caaaaaagca cttataggga taaagagaaa caccagagaa aaacaaagaa      480
aaaatcctaa gaaaatataa ccttcacata cttatatggt ttaacagcaa agcccgtgaa      540
ctgtttaata taggaagcac aaacgtgact gaagttacaa gagactgaga caactttcaa      600
aactcatggg gggagaattt tatcacttca acagaaactt aacaatttaa c              651

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<210> 31
<211> 553
<212> DNA
<213> Homo sapiens

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<400> 31
actggacttc ctctttcttc catcaaagac taagatgcct tttttccttg atgtacttta      60
ttttgtggag catattatct actttcctga aaaaatgggt tatgggagat aaatcataaa      120
aaggttttat tagattctac atctcatgat tgatccaaaa gacgttttaa aaacaaaaca      180
aaaaaaggcc ttgtaggtct taactcttac ttagcctcac atttatttga tagtttgagt      240
gagtatctta aaaattgaag atgattataa aaattttaat gtagacatta ttttttctca      300
gaattttgaa ggcactgctc tgtcttttgc agttggagag tctgatgcc a ttctgattct      360
taaatctttt atacaaaaca tgtttttgct tttggcagga agctttacct tttctttctt      420
tcaagtgtcc tgaaacttca ctgagatgta tcatggata ggtccacttt gatccactgt      480
cctggacact tgctaggcct tttcagtctc gaagctcatg actttcaggt aagagaaatt      540
tacgtctaag acc              553

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<210> 32
<211> 2159
<212> DNA
<213> Homo sapiens

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```

<400> 32
ggccgcttaa ttaaagatct tttttttttt ttttttttag tgctgaataa tagtccattg      60
tctttatgta ccacagttta tccactcacc tactgaagga catcttagtt gcttcaatgt      120
tttggagggt acagataatg ctactataaa catccatgtg cagggttttg tgtgaatgta      180
aagtttccaa ttcatttgag taaataccaa agcatgcaat tgctacatca tataaaagta      240
tgtttggtac tataagaaac tgccaaaactg tcctcttaag tggctatgca tatttttcaact      300
tccaccagca ataaatggag ttccctgttg tccacatgct cactagcatt tgggtgtgtc      360

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agtgttctgg	atthttggtca	ttctaataag	tacatagtca	tatctcgttg	ttttaattta	420
caattcccta	atgacatatg	atgttgaaca	tcttctcata	tgcttatttg	ccatctgtat	480
atctactttg	gtgaggtatc	tgttcagatc	ttttgccttt	tttttttctt	tgagacagag	540
tctcactctt	gtcaccacag	ctggagtgca	gtggcacgat	ctcagctcac	tgcaacctct	600
gcctgctggg	ttcaagcaat	tcttctgcct	cagcctccca	agtagctggg	attacaggca	660
cccaccacca	cgcccaggta	atthtttatat	ttttcataga	gatgggggtt	cgccatattg	720
gccaggctgg	tctcaaaactc	ctgacctcag	gtgatccacc	tgccctcagc	tccgaaaagt	780
ctgggattac	aggcgtgaga	caccacaccc	ggctcttggt	cacgtaattc	tattttatth	840
gagatggagt	cttgctctgt	tgcccaggct	ggagtgaggt	ggcatgatct	cggctcaccc	900
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tgtgcaccac	catgctgggc	taatgtttgt	atthtttagta	gagttgggg	ttcacttagc	1020
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tccaggtaaa	atgagacacg	ggttttttaa	agtcactgaa	tgtgcatgga	agtatttttg	1320
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gtttgagcag	agtcacatat	taccagagaa	ttcgaggata	gtatctccga	gaagccggga	1560
aaaaactcag	ttaagagaga	agggatgctt	taaaaaaaaa	aaaagaggtc	ttagacgtaa	1620
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cagtggatca	aagtggacct	ataccatgat	acatctcagt	gaagtttcag	gacacttgaa	1740
agaaagaaaa	ggtaaagctt	cctgccaaaa	gcaaaaacat	gttttgtata	aaagatttaa	1800
gaatcagaat	ggcatcagac	tctccaactg	caaaagacag	agcagtgcct	tcaaaattct	1860
gagaaaaaat	aatgtctaca	ttaaaattht	tataatcatc	ttcaattht	aagataactca	1920
ctcaaaactat	caaataaatg	tgaggctaag	taagagttaa	gacctacaag	gcctthttht	1980
gttttgtht	taaaacgtct	tttgatcaa	tcatgagatg	tagaatctaa	taaaacctth	2040
ttatgattta	tctcccataa	accatthtth	caggaaagta	gataaatatgc	tccacaaaat	2100
aaagtacatc	aaggaaaaaa	ggcatcttag	tctttgatgg	aagaaaggag	aagtccagt	2159

<210> 33
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 33
 agaaaacaag atccagatac aaaaatcgat tgtattttta ctatgctaata aattagcaga 60
 tattgaaact ttttaaacat acaattttatt atagcatcag aaaaatggaa tgcttaagta 120
 taaatctgac aaaaaatgtg agctacctgt aactggacc actaaacact agtgaacaa 180
 aattgaagag ctacttaatt ggaaatcagt ttccccccag atttatctat agagtcagtg 240
 aatcccaat caaaatctca gcaaggtctt taagaaattg acaatcttat tttaaaattt 300
 aagtggagat gcgaaataac taaagcaatt ctctgacaaa aacaagaaaa aagctagaag 360
 gctaacaacc aactgattg caagatttat cagaacaggt ataataatca ggccagtgct 420
 atatcgcat acacgataga ccaggagatc 450

<210> 34
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 34
 ctagacttat ggatttgagg gagctgtgtg aaactcatca tggcaaata gcttatgtgt 60
 atatatcctt tgccatacat gtgctgcaaa ctgtaatgaa atgttattta taagactggg 120
 aaggcatgtg ttattagact ggacacacaa aagcccttga ttatctagga agcaatcctc 180
 taggggtccag atgtagtttg gaatgtgggt gtttagtata actgtacttc attactgatt 240
 tttatttcta tgctgtttga ctgtattagc tctttgttat tattggggag gtagccagag 300
 gtctccagat tcccataatg aatttacagg tgtgatctta tggacaagga ggagtcagct 360
 gtattagttg ggggttcaat cttgcctgat aagcttttcc tagttggttt tacagatacg 420
 agccctgata tactccctgc tgccactgtc tgtttctatg atgcatgtca ccatgatata 480
 tgagtatgta tgaaaatata tttaggctaa ttttaactag aatatggaaa ggaaaaagtt 540
 ctattgctct gcattgctct gttttcagca atcactgttt ttca 584

<210> 35
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 35
 gctagactta tggatttgag ggagctgtgt gaaactcatc atggcaaata tgcttatgtg 60
 tatatatcct ttgccatata tgtgctgcaa actgtaatga aatgttattt ataagactgg 120

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taaggcatgt gttattagac tggacacaca aaagcccttg attatctagg aagcaatcct 180
ctaggggtcca gatgtagttt ggaatgtggg tgttttagtat cactgtactt cattactgat 240
ttttatttct atgctgtttg actgtattag ctctttgtta ttattgggga ggtagccaga 300
ggctctccaga ttcccataat gaatttacag gtgtgatctt atggacaagg aggagtcagc 360
tgtattagtt ggggggttcaa tcttgctga taagcttttc ctagttgggt ttacagatac 420
gagccctgat ctactccctg ctgccactgt ctgtttctat gatgcatgtc accatgatat 480
ctgagtatgt atgaaaatat atttaggcta attttaacta gaatatggaa aggaaaaagt 540
tctattgctc tgcatttgct ctgtttttca gcaatcactg tttttcaccc acatatagaa 600
agtttgaaag ctctctctga tgtctggcaa ccagatctcc ca 642

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<210> 36
<211> 669
<212> DNA
<213> Homo sapiens

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<400> 36
ccaaaattta ctagaatgtc ctgaaccaca tctttcataa tgttgctgac tcaaagactc 60
ttgaaggctc ctgaccacat tattcgcaat tctaactctc ttgccacccc ttccccatga 120
cccattgtaca attacatgct ctagatcttc tcctcaaaga tgaacataag tctgaaatat 180
caacaccttg gcagccctat tatcaattgc tgatctgtag tccccatgta agtacgcctt 240
tttttagcaac cagtttttgt cccagccata ttaatacttg tggtcagtgg ttaacaatgt 300
tgaagcttaa attatatcca gatgaaatth taaaaaggaa tcacttgtgt tcctctgtgt 360
taacacagga atcccagcat gtgtttctct tccaggaaac cataattata tgtacaaata 420
tctaccogga caattagggg cataatcatg ctctaaatag aagtgttcaa acaagtcaac 480
accttctctc cagttattcc tctttcttct ttctcttaga tgtcatgggt tctgtgtctc 540
aagacattta tgatttgatt tttctaacc tttctagggt ctattagagt caattagaca 600
acatatctct tctttctaag aatctggaca aggaggtata cttttctaaa ttttaatcct 660
attaatgcc 669

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<210> 37
<211> 1006
<212> DNA
<213> Homo sapiens

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<400> 37
tcttaaaatg agcaccctca ggactgttag gtaggagagg tgtagattt caagtagata 60
caaatagggtc cagaaggtaa aatgaggacc caaggataga agagcgacag tgatttcagc 120
tgagcctcag ttccaagcac agaacttttc agaaacagaa tgggttgcac aatatgtccc 180

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ctttttaaag acactttgca gacctggatg cctgtgtgtt ggcatggagc atagagggtt 240
cctgtcctgg gtaaacaatgc tgtgctggac taggttctct ctgaaagtct ctccctgctt 300
caggagtcta gaattctaag tttcttctca ggagactcca aaatttacta gaatgtcctg 360
aaccacatct ttcataatgt tgctgactca aagactcttg aaggctcctg accacattat 420
tcgcaattct aactctcttg ccacccttc cccatgacct atgtacaatt acatgctcta 480
gatcttctcc tcaaagatga acataagtct gaaatatcaa caccttggca gccctattat 540
caattgctga tctgtagtcc ccatgtaagt acgccttttt tagcaaccag tttttgtccc 600
agccatatta atacttgtgg tcagtgttga acaatgttga agcttaaatt atatccagat 660
gaaattttaa aaaggaatca cttgtgttcc tctgtgttaa cacaggaatc ccagcatgtg 720
tttctcttcc aggaaacat aattatatgt acaaatatct acccgacaa ttaggggcat 780
aatcatgctc taaatagaag tgttcaaaca agtcaacacc ttctctccag ttattcctct 840
ttcttcttcc tcttagatgt catggtttct gtgtctcaag acatttatga tttgattttt 900
ctaacccttt ctaggttcta ttagagtcaa ttagacaaca tattccttct ttctaagaat 960
ctggacaagg aggtatactt ttctaaattt taatcctatt aatgcc 1006

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<210> 38
<211> 589
<212> DNA
<213> Homo sapiens

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<400> 38
aggagctggg ttttgcttaa cagaaggagc actgacccat gttatagaca atcgcagaat 60
ttcatatccc catctataaa atgaaaacac aatacttctc accaactt atacagcacc 120
tactatgtgc taggttagag atcataaact ggtgatatgt aagtggaata taaccctcag 180
acttgggtctg tgtgttctac gcagttgatc tgcaccagcc tttgttaaaa ttggaaggaa 240
attgctaata tttaaaatca ggatatttcc cacgaaaatc tacatttcta gtatctcaga 300
aaaatcatta tttggcagca ctgggccaga atttctgcag ggcaattgtt gtctgactt 360
gggtggctgg tggaaatggg cgtgtactcc taagtttgtc ccaattgcta ccgctctatt 420
acttcactct ttaatgttca ctactcttgg ccctgtggga tttttgaggc tgagattcct 480
atattagggt ctgaaggcaa aacacacaca gaaaagaatg atttcaggcc cttcctgagc 540
atactcatga tgtataactt ttatgacagt aatagtagta tctagcaat 589

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<210> 39
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 39
aagacctgtc tttattttta gaagtaagaa taaaagagat tgtggtggag tatcacaggc 60
agcgtgggag cactgagggg gccctgacc caccctagga gtggatcagg atgacttctg 120
aaaggccaaa ctgattaata agggataaat aaagtcatgc aaatgaaaag gttgtatatg 180
tgttggggga aagcattcca gacagaagga ccagtgtgtg caaaggccct ggggtgagag 240
gtgcctaata agtactgaat atacaaagag gtagagctgg gactaaacca ctgtgctcac 300
tttgccctgct tgaattccga ttccaaggag tggaatagac ttcaaagtgc ttcaagtcca 360
cttgtttctg ccaagttctc atttttgttc catgaaggca gagcaccttc tttatttcat 420
ccactgatga cttctcagcc tctagaattc tgccttatga tggatttctc agaaatatgt 480
ttgtgtaatg aagacaagga cagtggtag agtttacatt ctactggg 528

<210> 40
<211> 673
<212> DNA
<213> Homo sapiens

<400> 40
caaaaaataa aaacaaaaac attagttggg cgtggtagtg tgtcccaggt actcaggaag 60
ctgaggtggg aggattgctt gagtcccga gttggatgct gcagtgagct atgattgtgc 120
cactgcagcc tgggtgacag aacaagaccc tgtctttaa aacaagaagt aagaataaaa 180
gagattgtgg tggagtatca caggcagcgt gggagcactg agggagcccc tgacccaccc 240
taggagtgga tcaggatgac ttctgaaagg ccaaactgat taataaggga taaataaagt 300
catgcaaata aaaaggttgt atatgtgttg ggggaaagca ttccagacag aaggaccagt 360
gtgtgcaaag gccctggggg gagaggtgcc taatcagtag tgaatatata aagaggtaga 420
gctgggacta aaccactgtg ctcaacttgc ctgcttgaat tccgattcca aggagtggaa 480
tagacttcaa atgtcttcaa gtccacttgt ttctgccaag ttctcatttt tgttccatga 540
aggcagagca cttcttttat ttcatccact gatgacttct cagcctctag aattctgcct 600
tatgatggat ttctcagaaa tatgtttgtg taatgaagac aaggacagtg gttagagttt 660
acattctact ggg 673

<210> 41
<211> 447
<212> DNA
<213> Homo sapiens

<400> 41
ctcaagcagg gctagcacct ccaatctaga gcaccctgca cttccggctc caccgggtctt 60
cttgccctt cactgccttg cctaggggtg ccttctcctc ctctcttaag ctgagtacaa 120

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gtgataatat agtgattaac acaatgctgt agtgttttcc tgttaaacag ggaatgggtg      180
attttccagg agaatagaaa atgaaattgt cattggagga cctcctcagt tgaaatcatt      240
ctgtggctga tttcctccta ttttgttttt tgttggttgg ttgggttttg ctttttcagt      300
agctaccag gtatacaaat agcttctttg cagtctgat catctttagg ggccgcattg      360
ggcataattg gaataataat actagctaac ctgcttgag ggcttgctct gtgctgtgca      420
ctttgtgagc actttaata taggagc                                           447

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<210> 42
<211> 562
<212> DNA
<213> Homo sapiens

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<400> 42
ctcaagcagg gctagcacct ccaatctaga gcacctgca cttccggctc caccgggtctt      60
cttgtccctt cactgccttg cctaggggtg ccttctctc ctctcttaag ctgagtacaa      120
gtgataatat agtgattaac acaatgctgt agtgttttcc tgttaaacag ggaatgggtg      180
attttccagg agaatagaaa atgaaattgt cattggagga cctcctcagt tgaaatcatt      240
ctgtggctga tttcctccta ttttgttttt tgttggttgg ttgggttttg ctttttcagt      300
agctaccag gtatacaaat agcttctttg cagtctgat catctttagg ggccgcattg      360
ggcataattg gaataataat actagctaac ctgcttgag ggcttgctct gtgctgtgca      420
ctttgtgagc actttaata taggagcaa acctctctt ccaaaagcct gaagggcagg      480
tgtcctcgca gttcccatc catagatcac catccttcca tggaaagtac tctgtggact      540
gtaacttgcc atctagactt tt                                           562

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<210> 43
<211> 848
<212> DNA
<213> Homo sapiens

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<400> 43
gggtctttct agctttcttg tcctttgtga agctggactg gtgatgtgca gttgaagaca      60
gcatcatcgg gggccttctg ctccatgtgt accctccagt atttgcaaaa gattgaacct      120
acaagatacg ttattagggc aagtatttac atggaaaggc tctgagttct ccaagacttt      180
ggtcattttt tacaagatga tgtactaccc tgatgatttg tggaatcttc ttaggaaccg      240
tgactgtgtt gcttttctga tcatgggtac agggccatct ttgttgaggc ttcccatgtg      300
tgtgggcaca gagcttctgt ggcattccag cagtagatta atggagctgt catcctctga      360
agcctcatgg gttgtgcatg caaacctggc cctgtgaact gcatgggagt ctcttaaaag      420

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ggcagagggga ttccttcctt tgtgaaaggt ttagaatggc acatatttgt aatttccaga 480
ctcatctttt cccactctca cattcactct gtatttggcc gtactaaatt gttgacagtt 540
ctccaaatac aacagcattg ctattctgct gccttcgtac atgccgttta cattactgtc 600
acattgtcca ggaattcatc cctgccatga ctgcagtgcc ccctctggga gctccccgtg 660
ccctgtgcct gccgctgtca gagcttccag catgctgggc tgtggaggtg ttggtctggt 720
tgcccaccca gcaagcctct aagctcctca aagacaccaa ctgtcacgca tatctggagc 780
agcacctggg accttacggg tccttaaagt cgggctgaat gaatgatgtc ttctgtctct 840
ttaaaccc 848

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<210> 44

<211> 1111

<212> DNA

<213> Homo sapiens

<400> 44

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gggtctttct agctttcttg tcctttgtga agctggactg gtgatgtgca gttgaagaca 60
gcatcatcgg gggccttctg ctccatgtgt accctccagt atttgcaaaa gattgaacct 120
acaagatacg ttattagggc aagtatttac atggaaaggc tctgagttct ccaagacttt 180
ggtcattttt tacaagatga tgtactaccc tgatgatttg tggaatcttc ttaggaaccg 240
tgactgtggt gcttttctga tcatgggtac agggccatct ttgttgaggc ttcccatgtg 300
tgtgggcaca gagcttctgt ggcattccag cagtagatta atggagctgt catcctctga 360
agcctcatgg gttgtgcatg caaacctggg cctgtgaact gcatgggagt ctcttaaaag 420
ggcagagggga ttccttcctt tgtgaaaggt ttagaatggc acatatttgt aatttccaga 480
ctcatctttt cccactctca cattcactct gtatttggcc gtactaaatt gttgacagtt 540
ctccaaatac aacagcattg ctattctgct gccttcgtac atgccgttta cattactgtc 600
acattgtcca ggaattcatc cctgccatga ctgcagtgcc ccctctggga gctccccgtg 660
ccctgtgcct gccgctgtca gagcttccag catgctgggc tgtggaggtg ttggtctggt 720
tgcccaccca gcaagcctct aagctcctca aagacaccaa ctgtcacgca tatctggagc 780
agcacctggg accttacggg tccttaaagt cgggctgaat gaatgatgtc ttctgtctct 840
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gaccaggtct ggcccgcgcc ctgatggtca tccttgcgct ggccgtttca ggatgaattt 1020
acagttactg acaccaattc ctgtggaaaa taataaaaga ctgcgggctt tcacatcacg 1080
tagcttaaaa agggaacacg gggacaaact g 1111

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<210> 45
 <211> 626
 <212> DNA
 <213> Homo sapiens

<400> 45
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 cacttcgtta aaaggaagaa aaaatttcaa gtaaaacata aacagggttt tagattgctc 120
 gataattcaa ttagtgaatc aaacaatgat aaaagctata tatttcctgc tgatttgtca 180
 ggaaatagtg aactgacaa agatagcatt acctaagaat ataaaagcaa agatagcggt 240
 gccacagact gcttaatgtg tgtcatctat caaaggggta tatgtgatga gaagaaaaac 300
 ttgaaatgcc ctcaaagtgt tcagctatca gaaactgaaa aaactcttac tagtgtgttc 360
 cgcataattg tgagcaatat tctaaagatc gacgtttctt cagttatgat tttcttgagg 420
 ctacatcaga gaacttcctt aaacctgtcg gtaatacaaa atcagtgagt catggcaaa 480
 gggagacatt atctatctgt tcttgactat ggaaaataat gttgcagaat ctttgtcctg 540
 tgtgtgaaga agcgatgagt acaggaccag aactgtccgg aagacgtatt tcaggagacg 600
 cacatggcag tcgggcgcgc ctctag 626

<210> 46
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 46
 gaagaaactg tgaggtcaca atacttttga ttcattatgt gaatatacat acacactcac 60
 atctctatta ctgtatccat ctctatatac ttgaactcca tatgctctat attaacttcg 120
 ccaaatccaa cccaacaaac agggttcatc tctgattttt ccccccata tttatgattct 180
 cagac 185

<210> 47
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 47
 atggatttgc cacaagctgg ctttgaaagc agtggttagag tgtgaaagaa gttaccttaa 60
 gacttcttgc cagttgcact gtaggtacga tgtactgttt gttgtgattt gactttcctc 120
 caccaccccc ctgccccagg aagatgtgat cttgtgcac ttgtgttcac gcagagtagg 180
 gtagttggat ctttgtcaag tctcagtgat ccacatgcgt gcacatctatt tgtcagctcg 240
 cttgtctttg tatccatgtc atactgtc 268

<210> 48
 <211> 108
 <212> DNA
 <213> Homo sapiens

<400> 48
 gtcgacgacg acagcaatgc cgatccgcgt cagccccgca accggctgcg gctgcagggtg 60
 atgcctgccc tgcgcgaggc cttcccgcag gcgccgctgg cgctggcc 108

<210> 49
 <211> 83
 <212> DNA
 <213> Homo sapiens

<400> 49
 gatcgagatc ggcggcgtgc cgctggtgca tctgccccgc gaggcggtgc gcgcgccctg 60
 gccgctcgac gagcgcgagg tgc 83

<210> 50
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 50
 aaagaaacaa gcaacaaata ggaaaatcaa attttttagaa gtaggtgcat aataggggaa 60
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 taacactatg agtttttcta taaacaaaat atagcaagat taagttgata acatacattt 180
 ctaaaatttt ggcttcctta gagaaagcca accaaatata aaattttaca gcagagtcaa 240
 gttttttcag tttggcctat attttctttg gtaacactgt tctgaatgta tatgcagtgt 300
 ttatttcaca acttccctct gaatgacctt tcaaaaatta atgattcttc acattcatga 360
 ccagatgttt tctctgatgg aagcatctga tgtttgcagt catcaaataa gattcaaaat 420
 gtctgtttca agcaaatcaa gtaaaacttc tccatcacat caaaagtaag gcttg 475

<210> 51
 <211> 607
 <212> DNA
 <213> Homo sapiens

<400> 51
 aaagaaacaa gcaacaaata ggaaaatcaa attttttagaa gtaggtgcat aataggggaa 60
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 taacactatg agtttttcta taaacaaaat atagcaagat taagttgata acatacattt 180
 ctaaaatttt ggcttcctta gagaaagcca accaaatata aaattttaca gcagagtcaa 240
 gttttttcag tttggcctat attttctttg gtaacactgt tctgaatgta tatgcagtgt 300

```

ttatttcaca acttcctctt gaatgacctt tcaaaaatta atgattcttc acattcatga      360
ccagatgttt tctctgatgg aagcatctga tgtttgcagt catcaaataa gattcaaaat      420
gtctgtttca agcaaataca gtaaaacttc tccatcacat caaaagtaag gcttttatatg      480
gttcacaagt agctatatga aataaacaga atttaaacga tcttaataat ttttttcttt      540
aaacaagggtg acaaaataac aatgccata tataaaaact cctcattaat gataagtgt      600
agatgga                                           607

```

```

<210> 52
<211> 590
<212> DNA
<213> Homo sapiens

```

```

<400> 52
ctcctcatta atgataattg ctagatggac accatgtaaa gtatggaaaa tgcctgtctg      60
aacaatgtct ttgctaaat tctctgaatt tttttttgtt tttcctcacc agttagcttt      120
gatgttttga tcagagtttt tagaaaattt ctaggatctg ttgccttttg acttttagagc      180
ttcttgagac cacatgtcag tactaaaacg ttttcttaag ccctcgcttt ccatagcaaa      240
aacatgttat gtccattatc cacctaactc atacttaaaa acaacacca agatgctcta      300
ttttgttttc aaagtcagag aagaaaatag aggggaagta tttttatgtt cttttccctg      360
aattggtcga agctagttag ttcaaaaaag atacaaaata tggaaacca cctattttat      420
ttcctggcaa ctgtttcatt caaatcatag agtaacatat gatttactac actcctttat      480
gaatattaat ctcgatatct cacagaatga cttaatatca ttgatcagct agaacatcga      540
cctcacctgt ctgttgtttt taacgaaatg tttattccta gtcaaaccac                    590

```

```

<210> 53
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<400> 53
agtctgctaa ctcatccag tggttttttc caactgcac tcagttatct tacatagact      60
gcaagaagtg agaaagacaa gaggttatct agtccagcct tgctatttta tagtttaaat      120
ccctcaacca catccctgat gaacttttgc cagtgccggt aattaacaat atcacaaggc      180
tgttctgatt gtctgtatct ctcagtgttt gtttagag                                217

```

```

<210> 54
<211> 430
<212> DNA
<213> Homo sapiens

```

<400> 54
aataaagata agaatgacaa cagattttctt tttgggaaca atgagagtgg gaagacaatg 60
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aacatcatca ggcagaagga aaaaaatagt atcagattga agtctgttct acacaaagta 180
atgaatacca gaaatgataa ctacctgggt aaatatataa gattattttc ttcttattta 240
aagtaagagt gagattctta tcaacaatag cataaaggct gaaggggaga aatggaagtc 300
tattagtgtg atcttataca tgatgtggta tgatgtcact tgaatgtaga attataaaga 360
taaacagcat aaactcttaa agcaaccacc aaaataacaa agagttataa ctaataattc 420
agcaaaggag 430

<210> 55
<211> 2956
<212> DNA
<213> Homo sapiens

<400> 55
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cgccacctcg gctcactgca acctccacct cctgggttca agtgattttc ctgcctcagc 120
ctcccgagta gctgggttta caggtgctcg ccaccacgcc cggctaattt ttgtttcttt 180
agtagggttt caccgtgttg gccaggctgg tctcgaactg ctgacctcgt gatctgcccc 240
ccttggcctc ccaaagtggg gagattacag gcgtgagcca ctgcacctgg ctttttattt 300
ttttaacttt gtatacggta ttttcttttt ctgtatagaa gtcaaactat tttccttcat 360
ggattctggg ttttgtctct tcattccaag accatttaaa aaaatgtgtt cacattttcc 420
tctgatactt ttaaggtgtc tttctgaaga taaaacctga tgtgtctgca atgctagagt 480
gaggcttgag tatgggcaag ctctctgagt gcacgtgtga gctgaggaca gcatggcgtg 540
tgaggaagga tcagtccaca cagctcatgt aagctcacga gagaggctac tggcttcact 600
gcacgtgtct actgggtgtt ttgacaacgt ggagtgaata cttcatgtcc tcacaaattc 660
aatgctgtt tttatcatgt ataaatatta tattggaaaa aaataaaatc ataatgaagt 720
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tcaactcaaa gcttggccct atcttccagt tacacgtcta taaatgtcaa ctacgaagcc 1020
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atcaaggaca	ccaaagaaga	aagcaatgg	caatgtatcc	caatatccat	aaactatgat	1860
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gagthtatgc	tgthtatctt	tataattcta	cattcaagt	acatcatacc	acatcatgta	2640
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ctthaaagat	gttgtcatt	gtcttccac	tctcattgtt	ccaaaaaga	aatctgttgt	2940

cattcttatac tttatt

2956

<210> 56

<211> 517

<212> DNA

<213> Homo sapiens

<400> 56

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caactcaacc aaaaatggcc cctctgtccc catgcctgat aggaaagtca ggggaaagtc     120
tgtccgatta ctgtcaaaga agacaggagg taagggtcag agtggaccac tgactgaata     180
tgagtcgcag aagtgttaga ggcagaagtc cagggccatt tccttaatat cgaagtgtct     240
ctgctggagg tctgggatgg atttttgccc tgcatttaga agttctgggg tcctgggaga     300
ggggagagaa gccaatagc agaggagaca gagtgtgggc ggggagagcc ggaggggtgc     360
atcctgggag agcaccaggg tgaggagggg gtgaagatga gccccgtcag ggaagcgtcg     420
gcgagtgtgg gaagtcacct gccctcggc ctgtgagctg ctctgcttgg agtgactaag     480
gctcgggagg tccaggctcg gccagaggca gctcata                               517

```

<210> 57

<211> 1490

<212> DNA

<213> Homo sapiens

<400> 57

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ggggaaccag acgccagtc acaggcgaga gccctgggat gcaccggcca gaggccatgc      60
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ggctctgcct caatctcccc tgcctccctc caggagagcc agggactcac ccggcccttg     180
tcccagacta actctggtca cagaaccatc ctgtctgcct ggaggggagg ggtccctgt      240
tctggcagag gtcaccccca tatcacgca tggggatttt ctccctttg ggtctctctt     300
ttcttcagag atgtatggcc ctggaggagg caagtatttc agcaccactg aagactacga     360
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gctatgggtc tgggcccagc gccatgtccc ctcccatccc acagtttcag gaactcaggg     480
cagcgggtaa gcacccgtgg ccacttttgc cacacatgcc tggctactgt cgatgcttcc     540
tggtcccgcc tgatgcttcc tggctggagc ggacacggtc agaccgtcct ccctaccttc     600
tcccttcaac ccaagctcaa ctcaacaaa aatggcccct ctgtcccat gctgatagg     660
aaagtcaggg gaaagtctgt ccgattactg tcaaagaaga caggaggtaa gggtcagagt     720
ggaccactga ctgaatatga gtcgcagaag tgtagaggc agaagtccag ggccatttcc     780
ttaatatcga agtgtctctg ctggagggtc gggatggatt tttgccctgc atttagaagt     840

```

```

tctgggggtcc tgggagaggg gagagaagcc caatagcaga ggagacagag tgtgggagg 900
gcgagccgga ggggtgcatc ctgggagagc accaggggtga gggaggggtg aagatgagcc 960
ccgtcagggg agcgctggcg agtgtgggaa gtcacctgcc cctcggcctg tgagctgctc 1020
tgcttggagt gactaaggct cgggagggtcc aggctcggcc agaggcagct catatgtggg 1080
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tggacgtcca aagctttgcc tctctccag tgtccagggtg aaacttggag actcctggga 1440
cgtgaaactg ggagccttag gtgggaatac ccaggaagtc accctgcagc 1490

```

```

<210> 58
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (197)..(197)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (432)..(432)
<223> n=a, c, g or t

```

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<400> 58
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cttggcctgt ctgtctgctg tgtcgctttt aggttctgct gccacggcta actatgtttc 120
cctgtgtttc cagataaact tgtgagggtc agaagctgac agaccaagct catttttcaa 180
gccaatctgt gtcatanaga gaccacgggt ttctctggg ttgggtcctt ctacctggtt 240
cagtcagctg tgaacaaaac ttgtggaatt tggtcatttt ccttaaaatg gagatacgag 300
agatcaccat ggctggcgctg aaactagttc tggatctgat tgtcttttca attgtttgtc 360
catcagggtga accactctg aagggaactt tggtaacatt ttccccaaa taaagatcat 420
taattaatta tnaaaa 436

```

```

<210> 59
<211> 458

```

<212> DNA

<213> Homo sapiens

<400> 59

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ctctgtctcc tcataggaat ttcttagttt cttggctttc gaatgtgact caacccctcc      60
cttggcctgt ctgtctgctg tgctgctttt aggttctgct gccacggcta actatgtttc      120
cctgtgtttc cagataaact tgtgagggtc agaagctgac agaccaagct cttttttcaa      180
gccaatctgt gtcatacaga gaccacgggt tttccttggg ttgggtcctt ctacctgggt      240
cagtcagctg tgaacaaaac ttgtggaatt tggtcatttt ccttaaaatg gagatacgag      300
agatcaccat ggctggcgtg aaactagtgc tggatctgat tgtcttttca attgtttgtc      360
catcaggtga acccactctg aagggaactt tggtaacatt ttccccaaaa taaagatcat      420
taattaatta taaaaaaaaa aaaaaaaaaat gagcggcc      458
```

<210> 60

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (336)..(336)

<223> n=a, c, g or t

<400> 60

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cggacgcgtg ggaaacacaa actgcatcat ccaaaaatac acctttgggc cacggatgcc      60
actggaagac atctgaattt tagacctcca gagagaagat ctgggtgggt agctccagag      120
tgaggcatg cttgcttttt ctttacctt gtgaagagga atggatccgg acatctgcaa      180
tctgggtaga ggacggcagg cagcaagctt agccactcgg ccaggcttct cagcccttac      240
tctagacatg tgatccttcc tccacgtgat atacttcaca actttcttac ggctactcaa      300
ggcatcccaa gttaaaagga aggtcagatg tgattnatca ctttattatg ataaaaaaaa      359
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<210> 61

<211> 932

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (161)..(180)

<223> n=a, c, g or t

<400> 61

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tggccagaga catatgaaaa gatgccttag acatatagca tcttttctca tccacttact      60
aggagaaatg ctactaaaaa ttatcctgta atgccattta aaaaaatctc agattgttga      120
```

```

agtacaaaaa gttagataac atattatcaa ccaaaatgtg nnnnnnnnnnn nnnnnnnnnnn 180
ttggggccagc tgtgtttggg taaactagtt aaggtaggtg ggttgtttgg tcaggaatta 240
aatcataaag aaaaacaaaa cctctgaaat gaaaactcat ggtgagggtg aaacttcacc 300
ccttgtagtc acttatgttt aactgggtcta ctggattttt ttaaagggtta agaaaacaca 360
aactgcatca tccaaaaata cacctttggg ccacggatgc cactggaaga catctgaatt 420
ttagacctcc agagagaaga tctgggtggc tagctccaga gtggaggcat gcttgctttt 480
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gcagcaagct tagccactcg gccaggcttc tcagccctta ctctagacat gtgatccttc 600
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aaggtcagat gtgattctca ctttattatg ataaaaaaaa ttactattta aatactataa 720
ataaatatta taataaatat taagctagaa ccatcagaat acatcacttc tgtatccagt 780
tttcaaagta tctttgggtg ttgtcaggaa taaataaaag taatcatttt atttctatta 840
aattatatct ggcactagtg gctagtactt ttgtacttat tagtacaacc ttaaaaagtc 900
ttaaaaagat ttcttttggg ttcagaacat aa 932

```

```

<210> 62
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<400> 62
ctggcagatc cggacgggca ggactgggtg tgtcccatga gagcacctcc ttcctggcct 60
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ccaggcacag cagttggtga ctccttgggtg ggagccgtgt cccaccgggt cctgatactg 180
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ggcttttgaa tcca 554

```

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<210> 63
<211> 786
<212> DNA
<213> Homo sapiens

```



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<400> 63
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acgccagccc tggcaaggca cccagaactc tccggaatgc ttgaaggcag ggccctggcct      120

ttccatgggg tccagggctg tggggtcctt ggcgggtactg tgggcctgca gagcggggca      180

tgtgggctga agaccgtctc cccaccatgg tgggaaggga caaagggtgg ccttggcaga      240

tccggacggg caggactggg tgtgtcccat gagagcacct ccttcctggc ctttcctgtg      300

gactttgtcc cacaccacct gcctgggttc cttcctttag tcacttccag ctccaggcac      360

agcagttggg gactccttgg tgggagccgt gtcccacccg gtctgatac tgccgtcttc      420

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ccgggcagga cacaggatgc ggccggccag gctggggcca aggtgttcag acctggactt      600

tgggctcgtg ctttcctcat ggttgcgcct tgctcgtgtt cccttggagt cttcatttgg      660

ttttgctttt tttgtttgtt tgttttcacc taatttttgc cagacttaag ctagttttgc      720

tgccctttga aactagtga agaatcattt tatttcctgg ggataatttg ggggcttttg      780

aatcca                                          786

```

```

<210> 64
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (411)..(411)
<223> n=a, c, g or t

```

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<400> 64
ggcacagcta gttggtgact ccttgggtggg agccgtgtcc cacccggtcc tgatactgcc      60

gtcttctctt tcacagtcct ccaggcttgg gccagccttg ggggcagcag agctttcttg      120

gctgacatgg ggctcattgc tcctttctcc aagccctctg agggacatca aaagcgtggg      180

acgcatccac ttttcacca tcttggcttg ccccaactgtt ccctccatcc tggagggcct      240

tccttaagca catgtgtggg ggtgggcagg cacactggct gatagctgtg gatgcggccg      300

tgacatcctt caccctgcc cccatggcat gcatgatcca ttagggagga ccgtctgcac      360

aaaggtctct tgccctgtgc aagcttcctg caagactgga cttgcaaaag ntccagcctg      420

tatggctgga gttcccatg cctgccaatc tcctgtcgac tgcgagtcag ctccgatact      480

tcaccagatt cagccacctg ggggagctgg aagtgaatct cctcgtagct gagccttctg      540

```

atgagactgc agccccggct gacacctgga ttgca

575

<210> 65
 <211> 834
 <212> DNA
 <213> Homo sapiens

<400> 65
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 atgggctcat tgctccttct ccaagccctc tgaggacatc aaaagcgtgg acgcatcact 180
 ttccaccatc ttgctgcccc ctgtccctcc atcctgaggg ctccctaagca catgtgtggg 240
 gtggcaggca cactgctgat agctgtggat gcggccgtga catccttcac ccctgcccc 300
 atggcatgca tgatccatta gggaggaccg tctgcacaaa ggtctcttgc cctgtgcagc 360
 ttcctgcaga ctggacttgc aaagtccagc ctgtatggct ggagttccca tgcttgc 420
 tctcctgtcg actgcgagtc agctccgata cttcaccaga ttcagccacc tgggggagct 480
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gggaactatc attggtacaa aaactctaag tgtggagaag actgtggtag acaagagggg 9720
acatgtctgt tctaaacgca catcagaaac ttccaatgac tatggccaag tgagataagg 9780
gtgtacagaa cttctcagga catgcagacc tatgtgtcac tcataactga aattcaaata 9840
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```

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<210> 72
<211> 93
<212> DNA
<213> Homo sapiens

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<400> 72
gttatattaa aacaatagaa acattaatct gtctgtcttt tctccattct atccattcgt 60
tctttaatgt ggtcactttt gaatgctgta tac 93

```

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<210> 73
<211> 299
<212> DNA
<213> Homo sapiens

```

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<400> 73
ctcgagcgct cacatattac cacctctgta aatccttttc taacttattc agggtgaccg 60
aattctgtgt ttctgtgccc ccttaatact tggtatataa gtctccttcc ccaaccaccc 120
ccacacttac cacatcacgt tagcaagaat gagagcaatt tgagggcagt ggctttgtat 180
cttattttata gccctggcac caaacagtt tgtaaaaagt taatctggtg cagggtggca 240
taacacataa gagtctgttt cttttgagat atttggcaga ggttgtggtg tgcggagat 299

```

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<210> 74
<211> 94
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n=a, c, g or t

<400> 74
 gctgtgttta tgctgctggc tgtactggga ggaatatggt cctttgtctc tgaccaggga 60
 gtttcatgtc ttctgccaag atacnttaca tgga 94

<210> 75
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 75
 gctgtgttta tgctgctggc tgtactggga ggaatatggt cctttgtctc tgaccaggga 60
 gtttcatgtc ttctgccaag atacattaca tggatagata cattaggtag gtagatacat 120
 tagatataga tagatacatt agatatagat agatacatta gatatagata gatacattag 180
 atatagatac attagatata gatggatata cagatagata cacagataga tagatagata 240
 gatagataga tagatagata gatagataga tagattcatt tattttattga gacagagtct 300
 tgctctgtca ccgaagctgg agggtagtgg cttgttcttg gctcactgca acctccacct 360
 cctgggttca ggtgattctc ctgcctcagc ctccacagca gctgggatta catgcccacc 420
 tattttgtac ttc 433

<210> 76
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 76
 gctcgagggt aatggaccat tcgggttata tggttcatat tttttgctca tttttatgtc 60
 atgggtgttta tcttttctgt gctgatttgt aaaagctatt ttaaaaccct tcatctgcca 120
 tatatgttac atttctttcc tgctttctgc caccttccaa tttgttacca actttcttct 180
 ccaaccttgg gccactggca tatacactca ttttaaatat cagaacttgt agtgctcttt 240
 gaaatgcaga cagactatgg ttcatctctgc aactgcatat tagttaacag gcaaaaatac 300
 cttagtaaga gaaagtgtct tttccttcta atgt 334

<210> 77
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 77
 ggcttatatg tggagaactg acgtctgaac ccagatctga ttcccaagtg taatactttc 60

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caataggcag ccttatatct ctgtacctca aaagagaagg ctatattatt taaaagatta 120
ggaattgtcc tatatgggtt taaaatacac ttgctatagc acaataataa gtgggttagt 180
ggtgactgct actcctgtga gtttggttta aaaacagccc agtttgtacc ctggtggtca 240
tgataaaagc ataccaccct tactttgaga attttaacca tagagcacia tatgtgtcaa 300
acaagctaaa aaagtattct tttcagttgc attttgatgg acattgaaat tgcttagact 360
ctttgaccaa aagtacaaac tgctgttaaa ctggtgacaa aatctgtttt catggacgct 420
aggtacttta agctttatct tcctcctaag cattctctgc ctttgtaaag cactctagca 480
gcagtatttg cttagcttct aattttgggt ttgcttttgt gttttctctc tttctcttgg 540
ttgttcc 547

```

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<210> 78
<211> 263
<212> DNA
<213> Homo sapiens

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<400> 78
tcgaggggtg aaatgagtgt cattagccaa gtgacattta agtgccttgg tttgtctgct 60
tgcttttctg tggattgaaa aaaactgacc actgttaata tgattgtaca gtgacactgg 120
aaattatgag atgtgtgtct ggtagtcct gcttgtatct cagttgagat gcataccaag 180
tctgataatg cagagctttt ccatttcatg tgtctgttta ccatttcat gatcttaagc 240
aataaacatt tcttgacaac agc 263

```

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<210> 79
<211> 765
<212> DNA
<213> Homo sapiens

```

```

<400> 79
gcgggaagag cacgcagccc tgcgagtact atttccgcgt gtaccactcg ctgtgcccc 60
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ctgagccggc gtcccgtctc ctgcctttct gcttcccagg tggagagctg gaacgagcag 180
atcaagaacg ggattttcgc cggcaaaatc tgactgcccc agcgcggctt cctctgaaga 240
tgcagtgatc ctgcatcttt ttgtctcgcg gagccccggg tctcggttat ccaccttac 300
ctcccagtgt ctaagccacg aataatgcca ccagccttcg agttccttgt ttcccttgc 360
ctggctcca cgtgtatgat ggggttctca ggcccaggct tcgaccagag gacctctgc 420
caccaccgtt tcttctgtc cttgagctac cttggtgaac tcatgacccc aggccctgc 480
tccaccagga tgtccccag gtccctgccag ctgggaagtg ccagcatgaa cgcctccaac 540

```

ttcgtggaag ccagggtccc ctgcagctga gggacgccaa gcagacacac ctgccctccc 600
 cagccagctc ctgtctgtat gggcgagatg actgagagcg cccacgtccc taaggctgtc 660
 ctgacctcc atgctgcgac aaggacaggg aatggctcgg cactatgggc ctggtgtctc 720
 ccctccccca ccaccgggtg ctgcccagct caagccagaa gtgac 765

<210> 80
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 80
 cgctgcctca agaccaggac ccgccgcggg aagagcacgc agccctgcga gtactatttc 60
 cgcgtgtacc actcgtctgt ccccatcagc tgggtggaga gctggaacga gcagatcgaa 120
 gaacgggatt ttctgcctgt gcaaacatct tgacttgccc ca 162

<210> 81
 <211> 986
 <212> DNA
 <213> Homo sapiens

<400> 81
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 gcggggtgcg tttctcctga cccgggtggg accgcacccc gcggactcag aagcgagcgg 120
 cccccggga ccatcccaca gcagatccag tggccgccaa cgtcaggctg gagttgcctc 180
 cttcgtggat gttggatgtg gaagcccagg agcccccaa ggggaaatgg tcgacgccgc 240
 ccttcgaccc gcgcttcccc agccagaacc agatccgtaa ctgctaccag aacttcctgg 300
 actaccaccg ctgcctcaag accaggaccc gccgcgggaa gagcacgcag ccctgcgagt 360
 actatttcct gcgtgtacca ctgcgtgtgc cccatcagct ggggtggagag ctggaacgag 420
 cagatcaaga acgggatttt cgccggcaaa atctgactgc cccagcgcgg cttcctctga 480
 agatgcagtg atcctgcatc tttttgtctc ggggagcccc gggctctcgg tatccacccc 540
 tacctcccag tgtctaagcc acgaataatg ccaccagcct tcgagttcct tgtttgccct 600
 tgctcgtggg ctccacgtgt atgatggggg tctcaggccc aggcttcgac cagaggagcc 660
 ctctggccac caccgtttct tcctgtgcct tgagctacct tggatgaactc atgaccccag 720
 gccccctgct ccaccaggat gtccccccagg gtccctgccag ctgggaagtg ccagcatgaa 780
 cgcctccaac ttcgtggaag ccagggtcccc tgcagctgag ggacgccaag cagacacacc 840
 tgccctcccc agacagctcc tgtctgtatg ggcgagatga ctgagagcgc ccacgtccct 900
 aaggctgtcc tgacctccat gctgcgacaa ggacagggaa tggtcgggtca ctatgggcct 960
 ggtgtctccc ctcccccatc aaccgg 986

<210> 82
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 82
 aacccaagat gactcgtctt ttggtgggag aattcactct gttcatgttt catttaacaa 60
 ttgatctact gtacttaatt acctttggct tattttacat ttattgggtt atcttgtgtt 120
 tttcttcct ctgatctggt tategatttc ctttttcttc ccctgttgca ctttccattt 180
 cattattggc agctgtccct tctctggggt tcctaataca acacatattc tttagcacat 240
 gcctcgatgg ggattctttt cgcagcacc ccatctggag ctacagaac ctgtcactct 300
 gtaggttctg gtcttttttc agcttaggaa catctatttg ttgcttgatt tgattattgt 360
 tagtttggt 369

<210> 83
 <211> 923
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (354)..(565)
 <223> n=a, c, g or t

<400> 83
 aacccaagat gactcgtctt ttggtgggag aattcactct gttcatgttt catttaacaa 60
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 tttcttcct ctgatctggt tategatttc ctttttcttc ccctgttgca ctttccattt 180
 cattattggc agctgtccct tctctggggt tcctaataca acacatattc tttagcacat 240
 gcctcgatgg ggattctttt cgcagcacc ccatctggag ctacagaac ctgtcactct 300
 gtaggttctg gtcttttttc agcttaggaa catctatttg ttgcttgatt tgannnnnnn 360
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 nnnnnnnnnn nnnnnnnnnn nnnnnccctg gataggaagg gataggaaga gactacttgg 600
 tgccatgggg taggggtgag ggtataagta gatcagagt ggaagacctc agccttgggt 660
 ggcttgtctc tgcttcttgc cagggtgggag ggctgtcca cacctggatc cccgtaccac 720
 agtgccagcc atgcccttcc ctgggctacc attgtccctt tcctcaccca gttggtagag 780

gagtcaggag gtgggaggcc gtgggctttg gttttataat gtaaccactg tgggggtggg 840
 ggaggatggg gaaccatgta tttcagtga atatttaata tatttaaata tcaataaaat 900
 caaactcttt gtaaaaaaag ccg 923

<210> 84
 <211> 338
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n=a, c, g or t

<400> 84
 ataatttttt tntttttaaa ggaaatgaac gtggaggact ggggtgaagg gccagcctgg 60
 gtagtttaat ctttttggga agacatgact ttaaggagat tccctgcttt gtgacaggtt 120
 gctccatgct gtcttgggga caagggcctg tactgccttc aaatctgggc tcacccaca 180
 ttttggtgag gggaagatag ggtgggggga taaggaggag aaaagactct agcttttttt 240
 ttctatgcat gatatactgt gtgggtttat caagagtgtg gacacagttg ctgttctcaa 300
 ataataggcc aaataaaatg cgattctttt tttctttg 338

<210> 85
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 85
 ataatttttt tctttttaaa ggaaatgaac gtggaggact ggggtgaagg gccagcctgg 60
 gtagtttaat ctttttggga agacatgact ttaaggagat tccctgcttt gtgacaggtt 120
 gctccatgct gtcttgggga caagggcctg tactgccttc aaatctgggc tcacccaca 180
 ttttggtgag gggaagatag ggtgggggga taaggaggag aaaagactct agcttttttt 240
 ttctatgcat gatatactgt gtgggtttat caagagtgtg gacacagttg ctgttctcaa 300
 ataataggcc aaataaaatg cgattctttt tttctttgaa acacacagaa cagcccagct 360
 ataaaacagg caactgagga agaaccaaac cgcataccgg caagactcta gcatgtcaag 420
 gtcaaagact ctccag 436

<210> 86
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 86

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agggaacggt ggatgtagtc acactgctgt tgggtgttact tagaccttca tttttccacc      60
agactgtagt gttcaaaatt ctttttagta agagaaccct ttttttctga actttttaca      120
accatctcca aattataaaa cataagactt ttttttagta aaaatatatt tttttacaag      180
cacagtggct tgcaccatgg aggggagagg aggtgttttg tccttggagc tgctggcctg      240
agagaaccct gtcatcgtgg gagctggggc attcctacac agtgggtctgg caatgacccg      300
gtggtggtgg aggctgtga gtgggcactg gtaatgggaa cagctgtaaa accctggagg      360
ccagccccag gagagtgacc ttaccagga aagtcttggg aaacaaacca cagggaggct      420
ttacaggaat ttttggttgt gcccacaggc aaggcacatg ag                          462

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```

<210> 87
<211> 1435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1012)..(1119)
<223> n=a, c, g or t

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<400> 87
ttagaggtag aagaactgac tataagcaga agtgtttgag gaggtgcat ggagaacaag      60
gggcatcatc ttggcccttg gcaggttggc aggatttgac ttggtgaaga gaacgagaaa      120
ggggacttta actgggagga ctactctggc tttgatttct ccatcatgcg gagattggtc      180
tttggaagtt gtagcttcca gagaccttcg atgtttgcta acatgtccaa gctctacatt      240
tattgattgt tggttctgtt catggctatg ttcaaattct tgtacctttt tgtcctccac      300
agttttctgt ctcatccctg tcttccacct ctgctccccg ctcttgtctg gtctaattaa      360
cttcctctgt tggagcagct tcccctcttg ggtaaactca gacatgaccg cagcaaagca      420
gcgtggaatc ttctgttttg tcagtgttcc cccagcttc cccgcagata cagctgcatt      480
ggagccccctg aagacaaacc agagaagtgc tgcatacctgg ggggcaggag gctttgcttt      540
gcccagggct gggctcctga atgaattttg gtgcagcctt aacggccgag ttgtgctgtt      600
gaaggtgcac tgctctgtgt ccaggcaatt catggagggg agaggagggtg ttttgtcctt      660
ggagctgctg gcctgagaga accttgtcat cgtgggagct gggccattcc tacacagtgg      720
tctggcaatg acccggtggt ggtggaggcc tgtgagtggg cactggtaat gggaacagct      780
gtaaaaccct ggaggccagc cccaggagag tgaccttacc aggaaagttc tgggaaacaa      840
accacagggg ggctttacag gaatttttgg ttgtgccac aggcaaggca catgaggaaa      900
agaaatgtaa ttatagtttg taagtcgatg aaaagaggca atgagtgaca tgaaatagct      960

```



```

gctctaagtt tcttcttcct gtcggacagg aagaaatggg gttttatgca tnnnnnnnnnn 1020
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1080
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttctgaggga agactgagat 1140
taagcagata actgtataaa tgcataatta cacagcatgg tgagtgtctt gaaggataag 1200
tgtgggggagc ctcatcttaga ttggaggatt gtgaaagtca agagacagga gagtcaagggt 1260
gaggcaagggt gagtaagagc tatccaggca aagactgctt ggtaggggag tgtcccagca 1320
acgggaaaca acctggaaaa aatatgacac ctgaggggaa ctaaaagcag ttgtatgtgg 1380
ctgatgcaca gacaggggag ggcaggaagt gtgctgaaag aaggcaggag gagaa 1435

```

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<210> 88
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (437)..(437)
<223> n=a, c, g or t

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<400> 88
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ccagactcct gaggggtctg ccagttcaag ccacttgaa gccagctcg tttgggggta 120
cttgaaccat ctgggggatt ccaactagta tctttagctc ctgacatgag ctgttctact 180
gtggggtcag cccttgtctg agactgtatc cctatagggt ccggtcttc tgttgacccc 240
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aaaagtccat gcttccggga atcaggaagt cgctcaagg caaaagtagc tgagtgtttc 360
tatatctgtt ttgttttcct ttctaacttc tctttttggg gggtattctc tcaccatctt 420
gttgattctt taagtctag cataacacac attttaaaa 459

```

```

<210> 89
<211> 1263
<212> DNA
<213> Homo sapiens

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```

<400> 89
gtctgggttg agtctaggat gaaggtacct tcctccagga aggccctggg gttccttctg 60
ccagactcct gaggggtctg ccagttcaag ccacttgaa gccagctcg tttgggggta 120
cttgaaccat ctgggggatt ccaactagta tctttagctc ctgacatgag ctgttctact 180
gtggggtcag cccttgtctg agactgtatc cctatagggt ccggtcttc tgttgacccc 240
tcaccttctg tgggcctggg gcatggacct ctgatccttc catctgaaga agctgtcaaa 300

```

```

ataaaagtcc atgcttccgg gaatcaggaa gtcgcctcaa ggcaaaagta gctgagtgtt 360
tctatatctg ttttgtttcc ctttctatct tctctttttg gtgggtaatt cttcaccatc 420
ttgttgattc ttttaagtctt agcataacac acatttttaa aatccagttg ttttagttgc 480
tttctgtctc catagaaggt caccatgggt ctcagccctg tcggacctgg agcctggtag 540
catgaccagg gacagggagt cctcatgccg ttttaagcag tggatgacta agttttatatt 600
cttaggtgag tcaaggtcgg aaaagcttga gacccctgct ctaggggctg tacctgtccc 660
tttctccctt ttctcctgtc tggactaggg ttcgaagggg ctgggtgggc atgtggagac 720
caagtagctg acaatcccca ggacctgtgg gctcagacac agggccctgc acctctcagc 780
ccttccggtc tcagctcagc acctcccttg cctggcccct ctttctgca tgagctccct 840
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tgctgagcca acaggtagg ggctggagaa acagtgatga gcttaaccag gccctgccag 1080
cctgcccacc ccgagtctgg tgagggtagc aaaaaacata aagtggaatt gataaataat 1140
ataatctatc catatccata tttttatttt ttattatttt gggacgaagt cttgctctgt 1200
cactccagcc tgagctacag agtgagaccg tgtctcaaaa aaaaataaga aaaaaaaaaa 1260
aaa 1263

```

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<210> 90
<211> 554
<212> DNA
<213> Homo sapiens

```

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<400> 90
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gtaaatacat ttatttcaat tcctttccta cataggggaa gaaacagagg ctgcaaaaga 120
tttagttagt tcaagaaaaa acagtataat ttggagtttt tgactttgtg agttttgtta 180
cggcgctgac attcattctt ttgtgcgttc agtgtattca aatcttcaaa tctagagcac 240
attgtatgct gggcagaagg cacagtactt gaggattcag tggacagtga tacagaaaag 300
gctgctgtcc ttgggcactg atgagcctcg ggctactaca agtaagcagg cagtggcagt 360
agggtggaatg agggctgcag gtccctggcat catggatacc aatttgggct tagaatggaa 420
gcggaggctt ccttgaagaa cagcgggtcta agctgagact tgtaggaata gtggtaatta 480
acaaacagac aggaagaaga gctttccagg aagacagcaa aacataggca aaggctctgga 540
gaggagagag agca 554

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<210> 91
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (406)..(406)
 <223>

<220>
 <221> misc_feature
 <222> (406)..(406)
 <223> n=a, c, g or t

<220>
 <221> misc_feature
 <222> (411)..(412)
 <223> n=a, c, g or t

<220>
 <221> misc_feature
 <222> (421)..(421)
 <223> n=a, c, g or t

<400> 91
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 gaaaactttt gagaaggagg acaaagcaga cggaacctaa tctctgaaca atttcaatta 120
 catctttttac aagtggctgt tggctagtca ttaaaaatga gccattcaca cttgtggaca 180
 cctttttttgc catgcagact tgacttgcaa agccttttatt atccctgggtt aagaacagca 240
 cagctaataa aaacgaatca tatggcttta aactacttgc atccaacagg gacatcctaa 300
 aaatggtccg gatagtgact tcatgaccat ttaggctgca agtgccatag ttactaatga 360
 gaacagatat ttccaaatgg cggcaataga ttatggaaaa tggagnaagg nnagagagta 420
 ntttactttc agcta 435

<210> 92
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (556)..(557)
 <223> n=a, c, g or t

<220>

<221> misc_feature
 <222> (566)..(566)
 <223> n=a, c, g or t

<220>
 <221> misc_feature
 <222> (551)..(551)
 <223> n=a, c, g or t

<400> 92
 aaaaaaactg tttagaaaac cttcatattt actctcccgt tcaaactatt ggccctgatt 60
 tttacagata atcaaaagtc aggctgccaa acttattttc tttgaatttg gaatatcttt 120
 taaaatttgc ctttttcttt cttattatta gtccataaag gctatttcta gtattaaaca 180
 atgcttaaga atagcttgga tccatgaaaa cttttgagaa ggaggacaaa gcagacggaa 240
 cctaattctt gaacaatttc aattacatct tttacaagt gctgttggt agtcattaaa 300
 aatgagccat tcacacttgt ggacaccttt tttgccatgc agacttgact tgcaaagcct 360
 ttattatccc tggttaagaa cagcacagct aataaaaacg aatcatatgg ctttaaacta 420
 cttgcatcca acagggacat cctaaaaatg gtccggatag tgacttcatg accatttagg 480
 ctgcaagtgc catagttact aatgagaaca gatatttcca aatggcggca atagattatg 540
 gaaaatggag naaggnnaga gagtanttta ctttcagcta 580

<210> 93
 <211> 724
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (297)..(602)
 <223> n=a, c, g or t

<400> 93
 tactgatgtg cttttgattt gtctggaggg tgactactac ctctttgagg tgcctcctgg 60
 gacctcaaa atattaactt ttatactctg tgtagcctgt actttaagcc agaacattca 120
 aagtacactg aagaaatgtg ttgaaaatct atgcaaccat tttcgcatta tgtactagca 180
 aataaacaat ctttaatttc tgggaatttc cattttcctc agtgatattg ttgattgatt 240
 tgtagttttc tttctttgct aggtttcagt atcagggctg taccaatttt tttcttnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nntgtgccat ctttatgaag tgaattatga agctttccaa tcttttttat tttgtagaac 660
agtttaaata cacaacaata tactaagttc ttagattgaa gctgttttta aatcacaaag 720
acag 724

```

```

<210> 94
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<400> 94
ctaagacagt ggccaatctg actgtgaaaa taagggcagg ctacactgga gagcagggat 60
agggacaccc ggggggcaga gatgtgggtc accttagggg aggacacact caggaggccg 120
gcccattgat gcacatgaag gctgggagca cgggtgctcaa ggatcagctc atcagggaac 180
ttgaccaa at ttagagcaag gccctttgat agtgtataga gatgtttgtt ctaagcagca 240
atagaaagct tctggaatct gttccattaa gaggtgatag aaacaaaata tgagtcgttt 300
tggagttgtt ttcagcagag tcacaatgat agcaccatta tagatatattt acagacataa 360
tcctgatctt ttgggtggat gaccagaatg tctagttggt tctactgagcc ctggttttga 420
cccaatatgg taattcgtga actcttagga ggccagaaat atcctaattc tgtgcaaggc 480
agggaacctt ggactgtaac tgtcttgtct gcttttggtc gtgaaggaga ctcagaggcc 540
caaacaagaa tttaggaaaa agagcaatag gattgtgttt aaaaaa 586

```

```

<210> 95
<211> 491
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (480)..(480)
<223> n=a, c, g or t

```

```

<400> 95
aaataattta acctaggaaa agaaaaagaa aattgaaaat tggagctaaa ataatttgat 60
ttttccctca acagggttat tggctgtctt ttaagtgact aaaagagcgt atctttatgt 120
gaattttagg catggtcata tgattaatac aaggataaag caaccaaatg ctctcagtat 180
ttattcccg tctatttgct tgttttttag ttcattggagt attgtattgt acttggtaat 240
ttgatgcttt tgagatgtcc ttttagacaga tttttaacta caggacttcc tctgtagaat 300
cgacaatgtg tttcactctc tgtggcattg acaatgtttt tgaatgccta attgttcagt 360

```

```

agaactccgt gggtattatt acaactttgt acattattat aaatatttta tattagttgt      420
atattccact gcagatagca accagaaaac taaaatacag aaatattaca tattagagggn      480
gattataatg g                                                    491

```

```

<210> 96
<211> 634
<212> DNA
<213> Homo sapiens

```

```

<400> 96
aaataattta acctaggaaa agaaaaagaa aattgaaaat tggagctaaa ataatttgat      60
ttttccctca acaggggttat tggctgtctt ttaagtgact aaaagagcgt atctttatgt      120
gaatttttagg catggtcata tgattaatac aaggataaag caaccaaag ctctcagtat      180
ttattcccggt gctatttgtc tgttttttag ttcattggagt attgtattgt acttggtaat      240
ttgatgcttt tgagatgtcc tttagacaga tttttaacta caggacttcc tctgtagaat      300
cgacaatgtg tttcactctc tgtggcattg acaatgtttt tgaatgccta attgttcagt      360
agaactccgt gggtattatt acaactttgt acattattat aaatatttta tattagttgt      420
atattccact gcagatagca accagaaaac taaatacaga aatattacat atagagagaa      480
tataatgtac aaaaaaaatc ttgggagatg agtgctttgg gtttaattct atttttactg      540
aaaccagaga ataataggat tcaaatctac ctaatttttc tattttttctg attttccatt      600
ctgtatgctc ttctttgaat tttttccttg gtca                                634

```

```

<210> 97
<211> 397
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (326)..(326)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (331)..(331)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (337)..(337)
<223> n=a, c, g or t

```

```

<220>

```

<221> misc_feature
 <222> (371)..(371)
 <223> n=a, c, g or t

<400> 97
 aataattagc caagttgtgg tgctttgagt tttttgagtc tgtggtttaa tatctgtcaa 60
 caattttgga aaattatcag ccatttttatt tgaagtcttt cttctgtcac atattttcttt 120
 tccttataca attagaattg cattttatatt agggagtttg atattatccc acagatcctg 180
 gatgatatat ttcattttct tccttttctt tttcctagtg tttcagtttg gacgagtttt 240
 atcgacatat ctttaaggtc actaatgatt ttctcagctg tgtcaagtct cctgataagg 300
 ccaataaaga gactatatct attatngtgt ntttaanttc tagcatttcc attttattct 360
 tagagtttaa nctctctaata gaaattaccc atcttat 397

<210> 98
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 98
 ataaagatgg ggtgagggaa gaaaagatga caaaaggaga ggaccaggca tgagaagagg 60
 aagaggagaa tgcggaggag gctgcttgcc tgctgtggga tggatggcag gggcacttcc 120
 ccagactcac ttttctcaga tgtaaaactg accagccttg tgccacagat gtgaagatag 180
 ccccatagaa cttaaagagc agaccataac ttcccatgaa tgagagctac taacatttac 240
 atctgaaaaa caatttggat acttacccaa gtctccaaca aacaaagtca cactgaagct 300
 ggagagcaca ctcataacac ccggaaaaac attttttttt aa 342

<210> 99
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (338)..(528)
 <223> n=a, c, g or t

<400> 99
 ataaagatgg ggtgagggaa gaaaagatga caaaaggaga ggaccaggca tgagaagagg 60
 aagaggagaa tgcggaggag gctgcttgcc tgctgtggga tggatggcag gggcacttcc 120
 ccagactcac ttttctcaga tgtaaaactg accagccttg tgccacagat gtgaagatag 180
 ccccatagaa cttaaagagc agaccataac ttcccatgaa tgagagctac taacatttac 240
 atctgaaaaa caatttggat acttacccaa gtctccaaca aacaaagtca cactgaagct 300

```

ggagagcaca ctcataacac ccggaaaaac atttttttnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntg aggagggcaa 540
aaatcacctg gtgaccattg gacaggcccc agagacaaat cttcttacct gggcaattca 600
gaaggggagcc aagaccacct ggtgaccatc aaacaggcca tctggaggca aaactcctta 660
tctggggaat ttagaagtaa tcaaacttcc ctagtatctg aagacggcat ctgatcatga 720
tacaggaact agaaagaaat catttaggca gttagtgagg gtgagggaag agagagggccc 780
tctcatattg tttatttagg ccattagtga ggggtgaggga agagagagac cctctcatat 840
tgtttcatat tgttttatac tcagtacctg att 873

```

```

<210> 100
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (48)..(48)
<223> n=a, c, g or t

```

```

<400> 100
ggaaaaggcc cccttaacct tcctcctcag gccactcag caaatgtngc cactttgtgg 60
ccactttgtg taaggcattc cagagatctg gtgaggcacc tatctacaaa tatttataca 120
cacacattca tatatggttt cagtcacaaa atgggggtcat tctctcccct gacctatcat 180
ttagggcatt ggaacatggc tgcattgtggc tctgtttgtg aggggtccagg ggatggacag 240
ggaggctctg cattattttg cttttaccaa cattgcagca tgaacgtttt tttaact 297

```

```

<210> 101
<211> 258
<212> DNA
<213> Homo sapiens

```

```

<400> 101
aatataaata cgcctttaat agtaacacct aattacctaa caccatcaaa aatgggggtgc 60
tccatgaaga agcacataat tcaaattatt gaagtttatc ccttctaata accacataga 120
tttctcttgc ccattaaaa aattagataa tcagtatttc taggatagtt gttttcttcc 180
aaccaattaa ggcataatct atgtagcaga acattcagag gatgatgcct ggtcaacatt 240
tgaataaaca atcactgt 258

```


<210> 102
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (603)..(603)
 <223> n=a, c, g or t

<400> 102
 aatataaata cgcctttaat agtaaacacct aattacctaa caccatcaaa aatgggggtgc 60
 tccatgaaga agcacataat tcaaattatt gaagtttatc ccttctaag accacataga 120
 tttctcttgc cccattaaaa aattagataa tcagtatttc taggatagtt gttttcttcc 180
 aaccaattaa ggcataatct atgtagcaga acattcagag gatgatgcct ggtcaacatt 240
 tgaataaaca atcactgtga tgttacctct atttaagatg actccaataa aacttctatg 300
 gtttgcatta ttagttgatc agactttaag cattatcttt tgatagggtc aaggaacctg 360
 tcttaactcc ccatctctga ccaaataata cttgttttct ataagctata aagccagata 420
 gccaatTTta tgagaattgt ccctatacta tatccatgtg agcgatgagt gcctggcatg 480
 aagatgcata aaggaggcag taatatacaa caactgaagc ataacctctg gagccagtct 540
 tcttcagaca aatcccaatt ccattactca ctggccacct aaacaagcta cttaattcat 600
 ctnoctcagt tttcttcaac tgtttaatgg gtatgatcaa caaaccaact tcagtgggtt 660
 atcataaata ttaataaatg agagaatgca tgtgaaacaa agctataagc aa 712

<210> 103
 <211> 173
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (96)..(96)
 <223> n=a, c, g or t

<220>
 <221> misc_feature
 <222> (140)..(140)
 <223> n=a, c, g or t

<400> 103
 gaatgtggct ggtgagtagg cacttgggtg ggcagtgtgg ctagtgggta agaacatggc 60
 tgggtgattag gcatgtggtg tggcagtgtg gctggngggg acgagcatgg ctgggtgggta 120
 agaacgtggc tgggagtagn agcatggccg gtgggtggga atgtggctag tga 173

<210> 104
 <211> 688
 <212> DNA
 <213> Homo sapiens

<400> 104
 tctgaatggt ttggtgaata aatctgttct tcagcaaccc tacctgcttc tccaaactgc 60
 ctaaagagat ccagtactga tgacgctgtt cttocatctt tactccctgg aaactaacca 120
 cgttgtcttc tttccttcac caccacccag gagctcagag atctaagctg ctttccatct 180
 tttctcccag ccccaggaca ctgactctgt acaggatggg gccgtcctct tgcctccttc 240
 tcatcctaata ccccttctc cagctgatca acctggggag tactcagtgt tccttagact 300
 ccgttatgga taagaagatc aaggatgttc tcaacagtct agagtacagt ccctctccta 360
 taagcaagaa gctctcgtgt gctagtgtca aaagccaagg cagaccgtcc tcctgccctg 420
 ctgggatggc tgtcactggc tgtgcttggt gctatggctg tggttcgtgg gatgttcagc 480
 tggaaaccac ctgccactgc cagtgcagtg tgggtggactg gaccactgcc cgtgctgcc 540
 acctgacctg acagggagga ggctgagaac tcagttttgt gaccatgaca gtaatgaaac 600
 caggggtcca accaagaaat ctaactcaaa cgtcccactt catttggtcc attcctgatt 660
 cttgggtaat aaagacaaac tttgtaaa 688

<210> 105
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 105
 ggcttggaga gggtcacaga ggctagtagc tgtgtggact tgcaggcagc cccaaatgct 60
 cacctatgtg cagagtcagc atgtcctgcc tcccctggta atgtggtcgc ctgcatctct 120
 gtggccagcg ctctcgttca tcattcagtc tgatggcttg agtgcctcta tgtttgctac 180
 atgctgagac cgtattctag tgccgtattc tggaggtagt ggggtgtacct acagatttaa 240
 gaatgcaaat ctggaggtag acccagtggg ttcaaagtag tctcatagaa caaagagact 300
 tatatagtga cttttgctgc atccactagt atacaccatc tgaggtctct tgaactgaaa 360
 atgaatgtgg aagcaaggga acagtgtgat gttcagctct cagatctcac atggcatctg 420
 atttggtctg aggtgcctcc cctcctctct gtcccctggc tgtgggctca tggattggca 480
 gagcccagtt atggcttccg ttttacttgc tataatatcc agaggcaatg tactagtcta 540
 cctagaaaat tgtgctcacg gcaccccttt gtcacattaa taagcattat ggacactacg 600
 acattttatt aagtattttg ttctgggtatc tacttgatta tagtaaatta tcaaaatcct 660

```

tatttagctc atggactctc attaaagcat gttcttgaaa ccttggccat aggttaggag      720
cctgtaaagt ttgattcatt gcaagatata agtgattagc agttggtagt agtgacattg      780
atgggcccga ttaaaaggtc tattggatgt ggtggtggca tagcgatagg ttggagttgg      840
aggtcagcat ggatgtctct gatttagaac caagcttacc ttgcataac ctatagtgac      900
actctcttca tctccccacg ccttagccat gtctccctga gggtcatact gtttggaatt      960
tcacaggctc atttatc                                                    977

```

```

<210> 106
<211> 500
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (357)..(357)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (367)..(367)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (391)..(391)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (407)..(407)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (410)..(410)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (430)..(430)
<223> n=a, c, g or t

```

```

<400> 106
cagagcaggc attgacctag atgtcttccc ctgccttcac tgggaggggtg ctgagccacg      60
ggttcacact ctgccaaagg cacacctagg agactcctca tgtccagctg agaagagggg      120
gacacctcct gtctgagact gcagctcaca ctgctgcatg cttcctggac accatctctc      180

```

```

tgaccttggt ogcatctgcc tagcctgcag ctacgttctc tgacctccag ctcttcctct      240
ttctccctc ggtaataacca aagtctcaag aacacagccc tcacttctag acagaaaggc      300
ctcaccagga cccacctgtg tggcccaggt gtgacctcat gtacaaacac atctccnaaa      360
atcacntct cgtcatcatg gaccctagta ntatccatga gttaacnctn atttctgtgt      420
taatcggggn tgcagcacat tttggtgcag attcattgtg gctttggggg gccatttggg      480
actctcccc atgcacaatg                                     500

```

```

<210> 107
<211> 476
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (466)..(466)
<223> n=a, c, g or t

```

```

<400> 107
gccatctttc cactcattcc ttctcaaaag gaatgtagta ccatatagta gttaagaata      60
tagacactgg agccgatctt cttgagttcc aatagtggct cttctacttt ttaaattctca      120
ttttccttca tctttaaatt gaagatagta acaatctcat ggggttgtga taactaaggg      180
ggtaatgcat gtaaagtgct tagaaaatgc ctggacatag gaagctctaa gtttgctgct      240
actactgtta ttatggttac tattattaat cattgcaagg aaaatgtatc aacagatgaa      300
tttggttcaa tactgccttc tagttttgtg accttagaat ttataggaac aaaaaagatt      360
tgaagggagg ttgggctgga tcatagagag ccttgattcc atgttttagg atgtatacac      420
agtgagaagt ccttcagggt ttggtcctgg gaagagttgt gaatcngaaa gttaac          476

```

```

<210> 108
<211> 834
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (824)..(824)
<223> n=a, c, g or t

```

```

<400> 108
ataagtatgc atgcttcata tacttcattt attctttctt ccttgaagcc tctcctcttt      60
attaggcact attcatttgt ctacttggtg cctgtatttt tttaatgtca ctattttgac      120
agtaccaata aaggtaaagc cactcaatta cgcagggctc tctctttatg ctttgggtag      180
gtgcacctgt gcaactgagg ggacgggtcag tgttatcaag gttacctgtt attacaagta      240

```

```

gaagaaccca caaagatcag gagagagctc attttcctcc attagtagga ggtaggacta      300
tacattcaca aacacgaacc ttaaaatagc tcacaaaata gtgtcataca tgtaccagc      360
catctttcca ctcatctctt ctcaaaagga atgtagtacc atatagtagt taagaatata      420
gacactggag ccgatcttct tgagttccaa tagtggctct tctacttttt aaatctcatt      480
ttccttcac tttaaattga agatagtaac aatctcatgg ggttgatgata actaaggggg      540
taatgcatgt aaagtgccta gaaaatgcct ggacatagga agctctaagt ttgctgctac      600
tactgttatt atggttacta ttattaatca ttgcaaggaa aatgtatcaa cagatgaatt      660
tggttcaata ctgccttcta gttttgtgac cttagaatth ataggaacaa aaaagatttg      720
aaggggaggtt gggctggatc atagagagcc ttgattccat gttttaggat gtatacacag      780
tgagaagtcc ttcaggthttt ggtcctggga agagttgtga atcngaaagt taac          834

```

```

<210> 109
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<400> 109
tttaattgg gagttaagga tgagcacttt tactgtatta aaaaatactc accagttaaa      60
aaaaaatact cttttccctt tctcggaca cctaaatcta agagaacaac tcctatataa      120
aaatgatata aaaatcatat attttgggaag tatgtttcta actgttctga gaggctgcat      180
ggtaaagctg aagtgaaga tgtattttta atctgtatat atgagcaagt atatattgat      240
gattgaagct aggtgctgcc taaatacatg gccagactt tgaggaatta tagtgtaatg      300
gctgggaata caggthttga gtcacaccgt agagctgaaa gcttggcttt tatttagctg      360
tgggtccttg ggcaggatac gtaatctgtc tgtgcctgaa ataccacca caccatcct      420
gtaatggggg gataataagc ctgcctatct catggggcta ttaagaatth tcagtttaact      480
tttacttatg aagtgcta                                498

```

```

<210> 110
<211> 259
<212> DNA
<213> Homo sapiens

```

```

<400> 110
tttaatgtgg tttagthtta gtcacttaga tttgctthtt atggagtgc tggagthttg      60
ggagggggagc agggaggtth tttctthttt ctttataaca ctggctaaat atthtaatta      120
ctgctataga aggaagaagc taaaagtatt gcattcaca atattgcata gattatacaa      180
acacagaaat atatgcatat gcatgtthta aatatatgcc acatatcaac accatgtatc      240

```

caacttgaat aaggtcatt

259

<210> 111

<211> 414

<212> DNA

<213> Homo sapiens

<400> 111

atgaaagggga tgaggggaac tcaaagttac aatgtcctac ttggagcagt aagttcagta 60

gacatatcac ttgcctcatt aacatcaagc atcccaaaac ccagtctggg tcagttttgc 120

ccagagtggg gtttgtagaa cacgggttct cctgggatcc tatacctagc ccagaatcag 180

ttgcaaaagc caggccatag caaattgtcc tgccagccag atagcagaga atctgacggc 240

agcaggcaga aggagccgct ccattgcagt aagccaagat cgcgccactt gcctcattac 300

atcaagcatc ccaaaaccca gtctgggtca gttttgcca gagtgagggt tgtagaacac 360

gggttctcct gggatctata cctagcccag aatcagttcc aaaagtccaa aaga 414

<210> 112

<211> 589

<212> DNA

<213> Homo sapiens

<400> 112

ctgggcaaca ttggggagac tctgtctcta aagaaaaaaa ggagagctgg tggtgaaagt 60

gtgaaggacc caggaagtac agacactggg ggtcaaagaa caagggtagg agtgtcatca 120

aatgatagtg ttggcagcat gggagctgtg ggtagagagt gagataccta aatttatgat 180

ttctgggtgg cagtaacttc tagggtgtgg ctgtgggagt gggcctctga atgggggtgga 240

ggagaaaatc attaaagatt agaaaatcctt gggattttaga ggatagggtt tgggatgggt 300

gatacacgtt agtgttgcat ttgccagggt taacgccaag agttggcaga gaaaataata 360

ctgacctaga ctttaataaa ggatttggga atgacagaga agcaacagta aaaataaggg 420

ataattagat gtttgggtgt ttgcctggc tgtgtctgtc ctgtgtctgg ccaattatta 480

caatgtatctt acactgtaaa tacatgtaat tcatataata gttttataag tagcaaaatg 540

tagtttaata aaaaaccatc ttagtcttct tacagaatat ttagttacc 589

<210> 113

<211> 471

<212> DNA

<213> Homo sapiens

<400> 113

cccaggctgg gggtcagggtg aggagggagc tgggatccag caagcctagt gaaaccagg 60

ggacagtgga ctcggtcaca tccaggatgg tgatcaacag ctgcatcatc ccgcttcctt 120

```

ctcaagcgac aattccagag ccttggccac acggtgcttg tatctttcgt attcagaccc 180
cctgggggttc cagcccctta ctgccttcac tttcctctca ccccttgact catctttcct 240
gctacttgtc acttgagata cctaagatga tgtgtgttat ggagaggtta gagcaccagc 300
ttcagaacca ccctgtgact ttggcctagt cacctgacat ttctagactt tgggtgtcttc 360
attcataaag gcagtgtgga ctgcttgctg atgttatcgt gaacctgaat tccttcttag 420
agtttctaag tgctttctgg ggattaacct tttaaatcct tgcagtagcc c 471

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<210> 114
<211> 1032
<212> DNA
<213> Homo sapiens

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<400> 114
aatgagggag ctcttgagct cccttgatga gcaccacaca gggccctctg ggaagcagta 60
agaacccatc ccaggggtca ataagaacct aaccagcct gggatggccc ttccctttct 120
gccaagggtc ttcccatgcc aaacctcagg cccttatctt ggtatctgtc accacccacc 180
acccccccga cacacacaca gtcatgcaag ttgtaagaca gtgacagaag atttgaagaa 240
gaccaccaga gcaggggata gcagaacatg cagacttagg gggaagccag gcgttcatac 300
caaagaatta gacctgttgg gtacccaggc tgggggtcag gtgaggagg agctgggatac 360
cagcaagcct agtgaaacct aggggacagt ggactcggtc acatccagga tggtgatcaa 420
cagctgcata atcccgttc cttctcaagc gacaattcca gagccttggc cacacgggtc 480
ttgtatcttt cgtattcaga cccctgggg ttccagcccc ttactgcctt cactttcctc 540
tcaccccttg actcatcttt cctgctactt gtcacttgag atacctaaga tgatgtgtgt 600
tatggagagg ttagagcacc agcttcagaa ccacctgtg actttggcct agtcacctga 660
catttctaga ctttgggtgc ttcattcata aaggcagtgt ggactgcttg ctgatgttat 720
cgtgaacctg aattccttct tagagtttct aagtgtttc tggggattaa ccttttaaat 780
ccttgcagta gcccaataag gtaggtattg ttgttatccc cattttacag gtaaggaaac 840
tgaggcacag agagtaattt gcacaaggct tatggctttt tagtggagga gccaaagagtc 900
aaattaagag tggttgagtc aggcattgtg gcccctgcct atagtcccag ctacttgaaa 960
gagtgaggtg ggaggatcgc ttgagcccag gagttcaatg ctacagagca agacctcaac 1020
tctttaaaaa aa 1032

```

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<210> 115
<211> 440
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (428)..(428)
 <223> n=a, c, g or t

<400> 115
 ggactacatc catgttccac cacaccaggc toccaattaca ttttgacttc tccacttgga 60
 tgtttaaaat gcttctcaaa tttaacatat cctaaagata attttgtgtc tccccacaaa 120
 acttgctctt tttgcattca ttgctgtctt agttaatggc accaccatcc atactgttac 180
 tttagccaga aacctttgaa acatcccaat tgggtctttct gattttctct gtttcacaaa 240
 ttattctcca cagacaggat actccaaaca gtacccaaag ccattgtctc ttatactttt 300
 caatctataa aatatacata cataagagta tataaaatat attataaagt aaatatccat 360
 gtatccaaac acacagggtt agaactggga acacaatatg caaaagaata atattgggac 420
 cccctancc tcatgtcata 440

<210> 116
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 116
 aaaaaaagtt ctgacaattt gtttgctttt acattttcaa atttgtgaaa tgtagagata 60
 attttgtttt caaatctttg taattccctg aagcaaatac tttcaagcca gttgcaaaat 120
 gctgcttttag aaataattca tataaacatg cttctctatt taatcacaag gggagatgtg 180
 gagaatggat gttttatttt ttcagtagtt tttgctctat aaaaatatta aattgctatt 240
 atgattact 249

<210> 117
 <211> 1017
 <212> DNA
 <213> Homo sapiens

<400> 117
 gccctttttt ggtgtgcccg ctgaatgagc actccaggct gtggagttcg ggacatgcct 60
 tggtttgtgg ggaccatgct gcctgcctgt cgagaccaag catcgatact gtgtgtctac 120
 ctgatgaaag tgtccagtat gtgtctgcat gacttgggga cactaagaaa accaaaggga 180
 ttagcaacaa agagagcttg tcacctttgt gcggaaccag ctggcatctc acagggacaa 240
 cctacaacct gagctgctgc gtccctcacta aatctgggcc cctagggacc ccgttttact 300
 cctgctctcc tggagcttat tacgggcctg gctaccaaag ggaaagaggg gaaaatagac 360
 caggagcctt atgctagaac catttatttt gtttcacgtg atgcagacag agataaaaact 420


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gcaaatttaa tgaaacttta acaatcagta caatgtttct ccttaagaac tttgtaaata 480
gcatttatct ttcaagagtt ctttctctct ttttgtgatt attttataaa cttaaaggaa 540
aaagagaaaa agtcagtggt tccagcattht gcttttagtct gtgacttaaa tggattataa 600
ctcttgaccg ctgacattta ccaagataaa tcagtgggtca tagatgtgga gcttgatgtc 660
tcttcggctc tgggaccaat ccccttggac aaaagttttc ctgtgttctt agtattctga 720
actggctaca gcaactttta ggaaaataaa ggttacaaaa aaagttctga caatttgtht 780
gctttttacat tttcaaattt gtgaaatgta gagataattt tgthtttcaa tctttgtaat 840
tccctgaagc aaatacttht aagccagttg caaaatgctg ctttagaaat aattcatata 900
aacatgcttc tctatttaat cacaagggga gatgtggaga atggatgtht tattttttca 960
gtagthtttg ctctataaaa atattaaatt gctattatga ttactaaaga taaaaaa 1017

```

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<210> 118
<211> 332
<212> DNA
<213> Homo sapiens

```

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<400> 118
ctgcctccac gtggattacc acatttctca cctcatccta caaggcagtht cctgtthtcta 60
ttcccccttc acacaaaata acttcgtatg ttgttagtaa gcaggagaac cagcctthtga 120
actcaggact gthttaaagac caaggtcctg gccactgaaa taaaacatct gcaactggca 180
gattaatgaa aggctctaga aggaaacaaa aaacccaaga gactgctggc agtgatagct 240
gagthtttagg gggaaaagtht gthtttagtht tccctgtata cthtcttgtht tagthtttaa 300
aatctacagtht atttacactt tcaaaacaaa at 332

```

```

<210> 119
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<400> 119
gcgcagggga aattataggt ggctgtggtht gtaattacaa agthtctgtca cgtcttcatt 60
gttaggagga aaagaattca ataatcctat cagthtctgct gtaaaacaaa tgagctatga 120
aattctggtht aacactgatt ttatgtctcc attcttgagg aactgttag thtgtthtca 180
tctgtatgcc ttgattagag caaataacct taaatatcct taaggaaact tagatataca 240
tcatttccag thtttatcaa atgtgaattt thtttgthtcat actgcccacc taacatggga 300
tgthttctca gaatattgtht cacttatgtht thtgagthtct ttaa 344

```

```

<210> 120
<211> 718

```

<212> DNA

<213> Homo sapiens

<400> 120

```

aaaaaatcat aatagtttat gatcttgaag ggtttaaaag tatttgatga agatgtcttt      60
tgaatttatt ttaggtctt cttgtgtatt taaaagctaa gttatcttgt aatcattttt      120
ttctatacct ttgtcagtaa cctcttagtg atgaaataaa aaagattagg taatcatcca      180
gcaatgggga agaagttaag gaacaaagag ctgagattaa actagttttt agaatctaag      240
catttctgca tgaatttgaa tcatggaaaa caaatgtag cactccaaca tttgatgcaa      300
aactaaaagt ggaatactgc tttgatattt gaatgaattg aaaaataatt aacatccttg      360
gaactgtatg taaagaagga cttcacaagt attatagata cccccaacct cagccctttt      420
cccatgtatc tctttgatca catccctacc tcatagatca cccatgtgct gaagactttc      480
agttctgtat cttcattcta gatctcctga actcaagatc agaatatctt tctgacttct      540
gactgtgtat ttctggatgt tatacaagaa cctcagctca aactcagtat tcctaaacc      600
attgtttttg aaactttatg ttggatgtga aatctgtatt gtagaataac attaaaaaaa      660
gaaagaatag tatgcaaaat atcagagtgc attgtatgta gcaagagtag gtattttc      718

```

<210> 121

<211> 2617

<212> DNA

<213> Homo sapiens

<400> 121

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atgtggaatc aacctacctg tccaggaaca gatgaagaga taagaaaatg cagtgtgtat      60
acacagtgga atgctcttca ccataaaaaa ttcacggaat catgtcattg cagcaacatg      120
gtggacaatg taagaaaagc tccccggaga agctgtacag aagctgcctc ctgagcagtc      180
agggccaggt accggagctg tttttaccca aggacagggc cggccccaag tcatcccaga      240
gctgccatgg caccacctca gtcgggtcct gaggaatcct acacaagcta cttatatcag      300
tgatcactag gataatccat agaacttttg ggaaagaagt ttaagacctt tctcccacca      360
tttcagcagg ataaattcca actggattag aaaatgaaat gttaataatg caaataagta      420
catatttata tctgtatata aaatacagtt gatatttgcc tgggtgtttag gtgtctaaag      480
gactttctaa gcataaaggc aaaaaaagt cataaaaatg ctatagcagt ttgagactct      540
atgcaggaaa gggcatcatc acgtgcatgg atgaatctgt atctaatttt aaacaatttc      600
caatggtgcc tgtttccttt tctttgaaaa tctctggaga aatagttcct cttgctgtgt      660
ctttcttttag gcaagaattt ttactaattg atgtgtagtc tgaatcctgg ctaagtataa      720
accttttatt ttttatacct gttcttagtg aaaatgaaac tgtgactttt tttttaattc      780

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cttttggttg	tcaaaaacta	caattaactc	ttctgagttt	cttctctggc	tgaacaaaca	840
atgggtcccat	tggcctttca	gggaactcca	ggccgtctca	aaaaccttca	tgtttcattt	900
cttttcagag	ctcccaaaaa	gaatagcttg	ctcttgacgt	tgtacatggt	agtggaatga	960
tcaggactac	tttgcaaaga	tgaaaaatth	gtgtttctag	tgatttgaaa	atagaaatct	1020
gatgtaacta	ttagatattg	ggaaagaagg	tgacgaaggt	aggtatcacc	gaaagcactt	1080
aacaattctg	aataattctg	tacttgattg	catttatgtg	tatcatagga	acagttgggt	1140
ttccttgagt	gttaaattat	ttattcactt	attccacttc	aagccagcta	aatgattggt	1200
tccctgatgg	caaaagtctc	agattgattg	cacagtttat	ttggttggat	tgtttatgct	1260
ctttttatta	tttattctta	tttcaccaat	gaaaatatca	ctaagttctt	tggtttggtg	1320
acctgattgt	acctactttg	acaaatcact	gcctttctgg	acctagtttt	ctcattaagt	1380
ggcagtgata	acctgtcata	cttacagata	taaaaacatg	aaagttaaag	tattgggtaa	1440
tactttcctc	ctatcttttt	tttattttga	aaaagataaa	aaattggcat	aatgtattag	1500
ttaagatgga	ataatcatat	gttgatatcc	agccatttct	tctctcaa	gataggaaga	1560
tttttatgtg	aaactacttg	tgagagatct	taacaatttg	tagttagaga	aagcactatt	1620
atatcatttg	gaaatgcaag	aaacaagtta	cctttggggc	aacagaggcc	cttgtcattt	1680
tctcaaaaga	aggaagcatc	agcattttga	tgatgatggt	gagattgtag	aatgatgaa	1740
ggtgaaaaag	ttattctagc	ttatgtttag	caaatgaaa	tgaacccaaa	taataaaaca	1800
gttacaacat	tgaatctctt	tgggagaaaa	aaaaaagata	gaatgcta	gtccttcaga	1860
acttcttaaa	ccagaacctt	aaaaaaaaga	gaagctttta	aaaaatcata	atagtttatg	1920
atcttgaagg	gtttaaaagt	atttgatgaa	gatgtctttt	gaatttat	gtaggtcttc	1980
ttgtgtat	aaaagctaag	ttatcttgta	atcatttttt	tctatacctt	tgtcagtaac	2040
ctcttagtga	tgaataaaaa	aagattaggt	aatcatccag	caatggggaa	gaagttaagg	2100
aacaaagagc	tcagaftaaa	ctagttttta	gaatctaagc	atttctgcat	gaatttgaat	2160
catggaaaac	aaaatgtagc	actccaacat	ttgatgcaaa	actaaaagtg	gaatactgct	2220
ttgatatttg	aatgaattga	aaaataatta	acatccttgg	aactgtatgt	aaagaaggac	2280
ttcacaagta	ttatagatac	ccccaacctc	agcccttttc	ccatgtatct	ctttgatcac	2340
atccctacct	catagatcac	ccatgtgctg	aagactttca	gttctgtatc	ttcattctag	2400
atctctgaa	ctcaagatca	gaatatcttt	ctgacttctg	actgtgtatt	tctggatggt	2460
atacaagaac	ctcagctcaa	actcagtatt	ccctaaacca	ttgtttttga	aactttatgt	2520
tggatgtgaa	atctgtattg	tagaataaca	ttaaaaaaag	aaagaatagt	atgcaaaaata	2580
tcagagtgca	ttgtatgtag	caagagtagg	tatttttc			2617

<210> 122
 <211> 373
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (74)..(294)
 <223> n=a, c, g or t

<400> 122
 gtattataat aatggcctta atgaataaca ttctctatat tcacacttat ttgcaatata 60
 atactgccat tctnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncactaa 300
 tctcaaagag ggcgatgatct tcaagaatta ataaccctct caagtctcta caatctaata 360
 caattacctt ggg 373

<210> 123
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 123
 gctgaaagcc cagagcagag ctgttctcat ggggaaggac cctgtcttcc ccatcatcct 60
 aggcgttcat tgaggatgag gactgtcttc ctccatcaga ccgagagttc ccaagggcaa 120
 gggctgtctc tccctgggtca gacagggagc tccccgaggg cagaggtcct gtctcctcca 180
 tcagactggt agccccaca accacaaagc tatgtctact ttcatcagaa ggagctccct 240
 aagtggggaa gggttctccc tattttcccc ttccaggtgg gaaattcctg gccaggggtcc 300
 cctgtctc 308

<210> 124
 <211> 774
 <212> DNA
 <213> Homo sapiens

<400> 124
 gccaacacca aagggggcac gggagaagga caggaggggt ggtttccctc agcaagctct 60
 cagtcccact gacactggcc caagagggct gagtgtactg ggcactcacg caggagagatt 120
 gttcccgaag gccctcggga aagttggtga atgcaaacag caggcagcca gagagcctgc 180
 tgcagaggag accagagacg atgccccagg agggcacaga agtggtgcaa agactcagca 240

```

gtgggaagga gcctggtccg tgagtgtgag gagataaccc gggccctagg cccttcctgc      300
cccaactttc caccacctgg ccagcccct tgcagcgggtg aggcttagca tctctctgct      360
gggtttgtga gagcccagac tgccccagtg aggggtacagg agtactctcc ccaggcagga      420
aggggtgggcg gcctccctcc aggtacccaa gaggaaatgt tagcagctga aagccccaga      480
gcagagctgt tctcatgggg aaggaccctg tcttccccat catcctaggc gttcattgag      540
gatgaggact gtcttctctc atcagaccga gagttcccaa gggcaagggc tgtctctccc      600
tggtcagaca gggagctccc cgagggcaga ggtcctgtct cctccatcag actggtagcc      660
cccacaacca caaagctatg tctactttca tcagaaggag ctccctaagt ggggaagggg      720
tctccctatt tcccccttcc aggtgggaaa ttcttgcca gggccccctg tctc          774

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<210> 125
<211> 271
<212> DNA
<213> Homo sapiens

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<400> 125
aagtcgtacg catgggttaa aaaaaaagaa aagaaaatcc aaaatagtag tgaaggtagt      60
cagtacacag gaagcctccg ccacactcca cctcccagct tcccccttg gaggtatctg      120
ctgtagtggg ctctcaaga tacttctagc catgctctgt ttgtgcatgc ttatccctgc      180
acagacagca gaagctgtct tggccaacaa gaccaggaag cattggtatt tgcagggttaa      240
ttgaaaaatt catttaaggt ggagaaccat a                                271

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```

<210> 126
<211> 1950
<212> DNA
<213> Homo sapiens

```

```

<400> 126
atgatgccac aggatgagcg cacttcaaag ctggaaggaa gcctggtgag ggagcagggc      60
agaatcttct cctggactgt gagggtagat acgggtggatg tgtatggctt cattgaagat      120
gccagtcctt gcattggcat ctgcagattt gaagaagtag gcccctcttc tagtcttcat      180
ggactggatt tggcaagaaa agtccttcat cagtcagcca ttcagaaact ctgggaagcc      240
tatctggtaa cgtccatggg caggcaaaat ttgccattca gtcacaagaa gtgcagttgg      300
cagacagcct tcaacttcag catcttcaga gtctgccttg actttcaagc tgaggccatg      360
gacttctcag gagctcctag ccaatggctg agaacaacgt gtctaacaca tgttctcttt      420
ctctttgatg gccaaaggcat ggctggccaa tgggatgctt ctctctcaa aggagcaggg      480
agagctggag atacctcctt tgcaaacagc agcttgagga tccagcgctt ggtgcacagc      540

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ccacagcgac cccaagaagc tgctccaacc cctgggacta tggagctcta cagctgtaga 600
 gaccaccagg aagtggactg caggcccttg gcctctccat tcagattctg caaagagatc 660
 ctgatgggtt gggccaatgg gtcaggcatc cagtcagctc tggctaaggg agctgcctgg 720
 tgccaggacg agcgtaacac ggacccacag tgtccccaga agggggcagg cgttctgaga 780
 gccacaaagt cctggctgcc agtgctccct ggtctgatcc taaacccgtc ctccctgggt 840
 gacagcttcg ccgtgagcgc tgccctgggt cggaagggca tcgaggagtg gatcggggaga 900
 cagcgtctgc cgggcgggtg ctccgggacc cgacagctgc ggttggcggg caccataggc 960
 cgaagcaccg gggaaagaga ccctgagacg ctgctgaatg agcaaagcaa ctgcaaaaca 1020
 ttcataaggc atgggtcctg ttcttacagt gtgaaaaagt ctattcaggc ctgtgtcact 1080
 gtgtatctgc agatgggttg atcagagcac cttcttctga tgtcaciaat cggggccttt 1140
 ctagccttct taaccttgga ggttctgctc agcagctgct actggcgtct cgtcctcttg 1200
 gctctgggtc tggggcactg gaaggtaaac tccctgctga gttggaggca gcagcattga 1260
 gtgggtggct gttttccagc caggatttac ccaggccttt atggcttgca aagccttct 1320
 cacagggtt tgtcaggcat ttaatatcca caaaaatgtg gccaggatca aaattattat 1380
 tatggggaaa ctgaggccag actgtaaagt ccacaggcca ggttctttgt ggctcactct 1440
 tgtatccctg ggccttttgc actgattggc acatggcaga tcctcaagaa cattttccag 1500
 gtggatgagg ttccagaggg ccattgcagct tggccagagg gcacacagcc agagaggcag 1560
 ggattctgtt ctgttctgtc caagtcccca cctcttttat ggagccaggc tgttctgtgt 1620
 ctttgaagag agcctctgcc cttcagaaag ggtcctcacc ttttccctt ctgtaaatta 1680
 agtcgtacgc atgggttaaaa aaaaaagaaa agaaaatcca aaatagtact gaaggatatgc 1740
 agtacacagg aagcctccgc ccacctccac ctcccagctt ccccttttg aggtatctgc 1800
 tgtagtgggc tcctcaagat acttctagcc atgctctgtt tgtgcatgct tatccctgca 1860
 cagacagcag aagctgtctt ggccaacaag accaggaagc attggtattt gcaggttaat 1920
 tgaaaaattc atttaagggtg gagaaccata 1950

<210> 127

<211> 209

<212> DNA

<213> Homo sapiens

<400> 127

gttgggtgtg gtgggtgtt ttgttgtaa tgttgtttt gccagtctgt gttgataaga 60
 tttattattg agaatagtgc ttgttctctg agtactcctg acttagaaaa ggagcatagc 120
 cctactaaag gggacttcaa agtagaaatc gtcaataacc ttttacttgc tacagttagt 180

ggcctcaaca tgatgttttt aaagatcctt

209

<210> 128
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (101)..(403)
 <223> n=a, c, g or t

<400> 128
 gcctccggtg gatggaatga agcaaggatg ggggctgcct gcagagctgt gtcactcact 60
 tgtattcagc tttcctgcct ctggctctct gtcttttacc nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 ctaagaaaac aatgatcacc atacatgctc tgcttccaaa ctatactttc acatccaaag 480
 taaccccaga ttcata 496

<210> 129
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 129
 catttctaac atttattgtc ctccagtaca aagaagtaac ccattgtcat gtctactcta 60
 tgataggcta gaactatagg gttgctctat attgatcagg tttttaaaga taaaaatgaa 120
 aaaaaaatcc tatccagaca aaataaatca gtgttttata tttttggagc atcagaactt 180
 actttaagac ctactggta attcttttagc ctctcacatg tgataaagac attgtgctta 240
 cattttttta aa 252

<210> 130
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 130
 atcagaatcc tgggaagggt ttgttaaaac actactaggc agggtgaggt aacctaagag 60
 cttttggagg cccagggtgag agggatcact tgcggccagc agagttcaag agcagcccag 120

gcaacacagg gagacctctt ctctacaaa

149

<210> 131
 <211> 390
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (217)..(273)
 <223> n=a, c, g or t

<400> 131
 agcaagtacg cagcattggg aatgaaccaa actcgtagga ggcacagccc actcagtgtg 60
 cgggcccggg cgagctgcag gcctgaaacc caccaccct cttagatgtg tctgtgggcc 120
 atagaaatta ctagggttgt cttgggtgtg gcctcaacct gttcaacaac aggtgtgctg 180
 tttccattct ggaaaccagt cctctgtctt ccagaannnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntactagg cagggtgagg taacctaga 300
 gcttttgagg gccaggtga gagggatcac ttgaggccag cagagttcaa gagcagccca 360
 ggcaacacag ggagacctt tctctacaaa 390

<210> 132
 <211> 1079
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (874)..(874)
 <223> n=a, c, g or t

<220>
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 <223> n=a, c, g or t

<220>
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 <223> n=a, c, g or t

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 <223> n=a, c, g or t

<220>
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<222> (890)..(890)
<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

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<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

<220>

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<222> (975)..(975)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (977)..(977)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (988)..(988)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (993)..(993)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (995)..(995)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (1007)..(1007)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (1013)..(1013)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (1030)..(1030)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (1037)..(1037)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (1050)..(1050)

<223> n=a, c, g or t

<220>
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 <222> (1061)..(1061)
 <223> n=a, c, g or t

<400> 132
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 gcatatgtat atgctctata tgaacaatac tgaaatgaac atccatatct atgacctctc 120
 tctgcactcc aggtcagat atgcaactcc ctatttgaca ggtctgcttg aaaacttget 180
 gggcatccca gaggtaacat ggatctaata gaagggttga ttttgtcctc caagccagtt 240
 cttcccttga ctttctacat ttcaccaaata gatacccaa cactcactt attctagccc 300
 aagatctagg agttattctt aggttttctt ttacccctc cacatggatc catcagcagg 360
 tcttgttctt ttttcttccc aaatatatct caagtccatg ctcttctgtc tgtccctact 420
 gccactatcc aagctctgag gccatccatt acatggacaa ctataaacta catgtcctaa 480
 tgacatatta gcagtagagt tgctaggcca aaagatttgt gtgttttatt ttgatagact 540
 ttgctacatt attctcaaag aggttttctc agtggtatct gcttattata tgagaatttc 600
 tgtttctgta ctctgtcacc accactgaat atcagggcca ctcttagccc atagcctcgt 660
 gagaattaga agtcacttcc tctgggtgag gcagctagct ccacagcaca gacttaacaa 720
 gtggaacttt agcatgtatt taattccac tcattctctt acctatgtgt ctttctgcag 780
 tcaacactct acacaactgt acatgaccac aatgctgtgc ataaataatt ttttagactc 840
 tttgtaaact tatatgtaaa aaatggcatc ttantttgna taagnanggn ggangncant 900
 taaaattcct tttccttga ntgncaatt nanagacttt cctnattttn agggttccta 960
 acaaattgga aaatncnggg gtttaaccnaa ggnatcat atatttnacc atnaaaaatt 1020
 ttttctggn accttangtt tgttaaaagn acttttttat ngaaaccttt aaattttta 1079

<210> 133
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (295)..(295)
 <223> n=a, c, g or t

<400> 133
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 tcacagtcca ctaaaaaact agtattccaa cttctattcc ctggcacact actaaatagg 120

caaccagga tttaaaaaat ggtttctggt gtccaggtaa gtttgcataa aacaaaaata 180
 aaactgttta atactgggcc cactacatta atctatggtg ctaacacgtg ctgtgaaccg 240
 tggggtcagg ggctggggga taaagttgca accattttttt gggggggttg gggangagga 300
 ggg 303

<210> 134
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 134
 ccggcaaatt taacaaaaaa aaaaaagtaa tatgaccata attaatatca gtcaaaatat 60
 tcttttaaagg aaaaaaatac taataagaga actctataaa aataaagaat ataataaaaa 120
 gagatcacat ttgcaaattt acattgttta atatcatagc ctcaaaataa attgcatata 180
 aatttttaaaa cctatggaga aattgacaaa tccaccaaca ctgtgggaaa tttttaatac 240
 atatctctta gctattaatg cataaagtag gtaaggaaaa ccaataggat gcaaataatt 300
 tgaacaataa aatcaacaac tttgatttag ttgatataca tatacagaca cttgcattta 360
 gtaattggaa aatatacatt attttccaac acacacaaaa aaacacttgc aaaaatgggc 420
 tgtgtcttaa atttttcaaa gaactgatat catacagaac acatgttatg accataatgt 480
 agttacatta gaaaatgtgg cagggattct gattctcctt tctgtgctag ggcatacagt 540
 taaatc 546

<210> 135
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 135
 aaaaaagtaa tatgaccata attaatatca gtcaaaatat tcttttaaagg aaaaaaatac 60
 taataagaga actctataaa aataaagaat ataataaaaa gagatcacat ttgcaaattt 120
 acattgttta atatcatagc ctcaaaataa attgcatata aatttttaaaa cctatggaga 180
 aattgacaaa tccaccaaca ctgtgggaaa tttttaatac atatctctta gctattaatg 240
 cataaagtag gtaaggaaaa ccaataggat gcaaataatt tgaacaataa aatcaacaac 300
 tttgatttag ttgatataca tatacagaca cttgcattta gtaattggaa aatatacatt 360
 attttccaac acacacaaaa aaacacttgc aaaaatgggc tgtgtcttaa atttttcaaa 420
 gaactgatat catacagaac acatgttatg accataatgt agttacatta gaaaatgtgg 480
 cagggattct gattctcctt tctgtgctag ggcatacagt taaatcacat tttcaccttc 540

cttgtattta tgagacttag ctctgtcctt atgaatgtgg gcagaagtga 590

<210> 136
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 136
 gctcgaggcc tggcatctga gttcttctgt tcaggagaaa cactttcagc aggccattga 60
 gagggtcatc ggaggtgagc ctgggagccc ttagggaggg aggggtgttt gcagctctgg 120
 gcctggcagg ctcaccccct ggccccagtt tcaattctgc atgca 165

<210> 137
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 137
 tagttacagt ccttaaatat atgtcttggg tgccctgtgg ctgtgatttt ttaagggaaa 60
 ttaacttatt ttaaataaaa taaacttaat ttaaaataaa attttgttat ctaaagccaa 120
 atagaaaaaa ttccacattt tttcttacag tgctcattca tcagaacctt tt 172

<210> 138
 <211> 809
 <212> DNA
 <213> Homo sapiens

<400> 138
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 agaatgtcct ccctccaact ccaaaagaca tgccctctgtg gtatagttac agtccttaaa 120
 tatatgtctt ggggtgccctg tggctgtgat tttttaaggg aaattaactt attttaaata 180
 aaataaactt aatttaaaat aaaattttgt tatctaaagc caaatagaaa aaattccaca 240
 ttttttctta cagtgtcat tcatcagaac cttttttttt tcttcttatt ttttcttttt 300
 ttggggagaa tgggtcctcc ctttgggtgcg catcaggggg aataagaggt acaaacaggc 360
 ggtgattata cgctcacttg ggagtttgga aactccgggg gcatcattgg gattcccatt 420
 ttgtcctcaa gcctccggag tagctaggac atacggggtt tgcaccacaa ggccgggata 480
 aatttcaaaa tttttctcac gagacaaagt ttgggattct tggccccagg attgggacgg 540
 ggtatatcac aaaagaaact atttcagggg cgcttagaga ggctcaagt acacctactt 600
 atcaggggtt tccagtggag agaactgtac cctaccctta ctacctttta agtgggtgcct 660
 ctccctccac ctttaacctt tacacattac ggaactggcg ctatcatttt aaagtcaact 720
 aacctggact ttggacttct ttaacacttc agctccggga tccaaactaa aatcttaggc 780

aaggcctaatt ggacggtaga agtctacgc

809

<210> 139

<211> 294

<212> DNA

<213> Homo sapiens

<400> 139

gtctttttca ttcataagtaa ccctgcaaaa caaacatata gaacagagac attatggaga 60

cttgaggatt gattttatgt attgattatg tatgtaagtc ccgataacat ctctgggttca 120

ggaaattgca agaaaaagat tgggaatcag aacagcagaa aggtatTTTTT ggaagggtaa 180

tttactgatt tttcgtttta aattgttgac attgccttcg ccggtggaaa tgaattactt 240

atgtgaatct ggcaggaaca caatttttaa aattagaaaa ttagtcctcc ttat 294

<210> 140

<211> 1056

<212> DNA

<213> Homo sapiens

<400> 140

acctaaacac attttaatta tattttgctc atttttggag aaccattcc ctttgacatc 60

tattatgaac attctaaaac ttaaatttgt gaaaacaaaa ctctgggaga tagattgtaa 120

ttttattcca tgaggaaggt gttaaaccag ctttgacagt tgaattttat tcttaaaggc 180

tctgcagttc ttacctggat gtcgaaatga tttttaattt caactgctgt agacctcatc 240

ctgtgggaac tagaaataat gtccaactgc cgtccagtct ggcgacattc cagccgttcc 300

ccccccac gataacggcc tgactcttcc tcaattcatg acagcccatt ctacacataa 360

cctttctcct ctggcaccgg tctcccagc agagagggat cctgcccttc ccttcccact 420

ctccagcata cagaccagca ggaagccaca agagggaaaa acaaaagcct tctgtataag 480

gcctatgaaa ggaccatggg ccagcctcag aatctgctgc ccctacaaac cagtattcct 540

caaatgatag ttccacattt acttaataag gaggactaat tttctaattt taaaaattgt 600

gttcttgcca gattcacata agtaattcat ttccaccggc gaaggcaatg tcaacaattt 660

aaaacgaaaa atcagtaaata tacccttcca aaaatacctt tctgctgttc tgattcccaa 720

tctttttctt gcaatttcct gaaccagaga tggtatcggg acttacatac ataataata 780

cataaaatca atcctcaagt ctccataatg tctctgttct atatgtttgt tttgcagggt 840

tactatgaat gaaaaagaca atttcatgaa tgcagaaaat ctggggatcg tgtttgggcc 900

cactctgatg agggccctg aggacagcac cctgaccacc ctgcatgata tgcggtacca 960

aaagctgatt gtgcagattt taatagaaaa cgaagacgtt ttattctaata ccatcagggg 1020

aatgagctga atggccccag caccatccaa gttgac 1056

<210> 141
 <211> 968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (319)..(319)
 <223> n=a, c, g or t

<220>
 <221> misc_feature
 <222> (497)..(497)
 <223> n=a, c, g or t

<400> 141
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 aataaggctt agaaagaggg attgccagaa actttggcag ctggattgcc tgtgcttggt 120
 cctctaagcc atacctaaat tctgcagtaa atacttaact ttttaatagg gaaattgctt 180
 caagataact tgaccagtga tacggtaaaa taattagact attggactaa tggtttaaca 240
 caagtggctt taaaaagtct gcttaaaaaa caatttttat ttagaaaaaa tagaaaaata 300
 aaaacatctt caaaatttng gagcctgaag gggctgtttg tttcatatat ggataatctt 360
 tgaaaaggca agtcctgtat gtatttttca tttgttgaaa gaagattggg tatcagtagg 420
 cttgcaaaca taatttgctt ttaagttctt tcaaggtttt atgcaataaa acctattgat 480
 ttggaacttt aaaaaanaaa acaacaaaaa aatactttca gggttttgta atttcaagtg 540
 gttttttaag gggagcaata gtttgccatt taccaaaggc ttctccagat aatttcttaa 600
 atgtttctac ttaaaaaataa aagctattaa taataagctg tcatgggatc catttgaaga 660
 cagggaaaat agaaaatttt tattgtaaag ggaagaactt atccttttaa ttttatggac 720
 taacagagtc tgcagggtctt aactcatttc agcctgtcaa atgtgcaatt aaaaatgaat 780
 tttctaattg tattcaaag aggcctctata gtgaatacag aatcactctt ctaagttttt 840
 tcccagttaa tttgtttaaa agtggtgtac tctcttgcaa gaacgtttta aagttaagtc 900
 ttgtaactgt taacatctaa tgtattaata taagccattt gttttttacc atttttttta 960
 ggccgtat 968

<210> 142
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 142

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gaaaatttga gtatcttttt gaaattttta attgaaattt ggatagagat ggttatggag      60
agaaatcaaa caactggaat agctgtttga tatcacttaa aagtgataaa attttaagtt      120
gaatctgggc agtttgcaat ggcctatttg taagaaatat caagacttct tgagaaaaat      180
gaaaagtga  tacataaatg cttaaaatct ggtacttctg agttaagggt ttgctctttg      240
agcttaatcc aatttgggat gatttttcat cctagggcct tttgttttcc ttttttattt      300
ttattttttc tttttttagg ggaaggggac ttgctttctt ttccaaaaag gtgaatcctt      360
ctttagggac ataggtaaaa aaaacaaagc tgaaatatat gttttgaata tagatagcta      420
attccctggg atataatatc ctttcaattt tttttttttt ttggggccag tctgcctttg      480
gatgtttcaa aagtctgaac gagatgtccc agtaacctaa aattatccag tcggtcttct      540
tactttacaa ctaagaaaaa taaggcttag aaagagggat tgccagaaac tttggcagct      600
ggattgctg  tgcttgttcc tctaagccat acctaaattc tgcagtaaat acttaacttt      660
ttaataggga aattgcttca agataacttg accagtgata cggtaaaata attagactat      720
tggaactaat gttaacaca agtggcttta aaaagtctgc ttaaaaaaca atttttattt      780
agaaaaaata gaaaaataaa aacatcttca aaatttagga gcctgaaggg gctgtttggt      840
tcatatatgg ataatctttg aaaaggcaag tcctgtatgt atttttcatt tgttgaaaga      900
agattgggta tcagtaggct tgcaaacata atttgctttt aagttctttc aagggtttat      960
gcaataaaaac ctattgattt ggaactttta aaaaaaaaaa acaaaaaaaaaa tactttcagg 1020
gttttgtaat ttcaagtggg tttttaaggg gagcaatagt ttgccattta ccaaaggcct 1080
ctccagataa tttcttaaat gtttctactt aaaaataaaa gctattaata ataagctgtc 1140
atgggatcca tttgaagaca gggaaaatag aaaattttta ttgtaaaggg aagaacttat 1200
ccttttaatt ttatggacta acagagtctg caggctctta ctcatttcag cctgtcaaat 1260
gtgcaattaa aaatgaattt tctaattgta ttcaaatgag gctctatagt gaatacagaa 1320
tcaactcttct aagttttttc ccagttaatt tgtttaaaag tgttgactc tcttgcaaga 1380
acgttttaaaa gttaagtctt gtaactgtta acatctaatt tattaatata agccatttgt 1440
tttttaccat tttttaagg ccgtat                                     1466

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<210> 143
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (289)..(289)
<223> n=a, c, g or t

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<400> 143
gacacagcct atctcaaaga gagatgagaa gagccaggcc ccctctcttc ttctccatg      60
ctgttagctc accagggcag atcttgacct caaagaatgc cgtcttccct tctggagctg      120
gtcctgtgat gtgaacctgg ctatcttcaa ttcacaggat agggagtaag acatttcatt      180
ttggccttag gtccaagcca tcttcttcaa tgtagctact actagagagc ccacaatgaa      240
gccataaatt ggctcccat ttggcaattt gtgtcccttt cagaaagang aagggttagt      300
aatcac                                           306

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<210> 144
<211> 494
<212> DNA
<213> Homo sapiens

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<400> 144
gacacagcct atctcaaaga gagatgagaa gagccaggcc ccctctcttc ttctccatg      60
ctgttagctc accagggcag atcttgacct caaagaatgc cgtcttccct tctggagctg      120
gtcctgtgat gtgaacctgg ctatcttcaa ttcacaggat agggagtaag acatttcatt      180
ttggccttag gtccaagcca tcttcttcaa tgtagctact actagagagc ccacaatgaa      240
gccataaatt ggctcccat ttggcaattt gtgtcccttt tcagaaagag gaagggttag      300
taatcagcac ttttaagtac cagcatgcag cattaacaag ttctcaaggc ctgcaagcca      360
tagggtttct gtcttccctg tattggcctt gtaatctctg accatgatta gggtaagagt      420
taagagactc ccaggacagg aaacggaaaa catcagattg tgtatggaat gaaccctctt      480
ggctggatgt ggtg                                           494

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<210> 145
<211> 174
<212> DNA
<213> Homo sapiens

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<400> 145
gtggaacaac tctatgccat aaaatttctt atttcacagt taaatgaaca tatttggtt      60
atgtcacttt cttttagctt gcattccttt tataggaagg ccattttagg agtcctgggg      120
cattttgact caacttctta aatcatttat tctattcaca aaaggtttat tgaa          174

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<210> 146
<211> 445
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (371)..(371)

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<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (391)..(391)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (406)..(406)

<223> n=a, c, g or t

<220>

<221> misc_feature

<222> (427)..(427)

<223> n=a, c, g or t

<400> 146

tgatttttaa caattgtgtg tgtgcaccca gctaaccatc tctacaatcg atctagaaca	60
ttttcatcac ttcagtgtt ctcgtatatt ccttcccagc taacccatga tccccaaccc	120
tggccatagg aaccgctga tccatcttct atcactttag attgaatttg tctttcctac	180
tgttttatat aaagaaatta cctcctttaa gtcctatcaa attcctgac acccttaaaa	240
aacaattttt aggtattacc ataaaacctt ccatgacatt ctctgcttta tcttctctgt	300
gctactttgt ccattcattg ttgcattgta atgtatttct gtacatgtta tatcactaaa	360
ctgtctcttc nttgaaggga gggacatgtg ntcactatct atttcnaagg cttatacaga	420
aactganaca tagtagatgc ttact	445

<210> 147

<211> 734

<212> DNA

<213> Homo sapiens

<400> 147

tgatttttaa caattgtgtg tgtgcaccca gctaaccatc tctacaatcg atctagaaca	60
ttttcatcac ttcagtgtt ctcgtatatt ccttcccagc taacccatga tccccaaccc	120
tggccatagg aaccgctga tccatcttct atcactttag attgaatttg tctttcctac	180
tgttttatat aaagaaatta cctcctttaa gtcctatcaa attcctgac acccttaaaa	240
aacaattttt aggtattacc ataaaacctt ccatgacatt ctctgcttta tcttctctgt	300
gctactttgt ccattcattg ttgcattgta atgtatttct gtacatgtta tatcactaaa	360
ctgtctcttc cttgaaggga gggacatgtg ttcactcatc tattttcaag gcttattaca	420
gaaactgaaa catagtagat gcttacttgg gaatattata tctcaaaata gaaaaacacc	480

cagcaaatcg catcttatat tagtcttttag aattagatc aaagcctaatt tattatgaca 540
 cttgaaacat taaataactt agaaaacaaa gacttaaaag ttttatgata aagccagaaa 600
 cttttttatag tgaccatttt taaataactga catttcagat taattggggg cagatgatat 660
 atgaaattat agtttatact gtgacttctt aatacttcag ttgtgttaga taaactgata 720
 gttcgtcaca tttt 734

<210> 148
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 148

Met Leu Lys Ile Ile Asp Lys Leu Tyr Phe Ser Tyr Leu His Ser Ala
 1 5 10 15

Asp Ile Leu Cys Asn Thr Glu Ser Tyr Thr Leu Ser Met
 20 25

<210> 149
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 149

Met Gly Trp His Glu Ile Gln Ile Pro Val Leu Ile Phe Leu Leu Ala
 1 5 10 15

Val Tyr His Arg Thr Ser His Phe Thr Ser Leu Pro Leu Gly Pro Gln
 20 25 30

Phe Ser Val Phe Leu Ile Tyr Lys Tyr Ser His Pro Ala Phe Arg Gln
 35 40 45

Val Leu Arg Leu Asn Lys Glu Phe Asn Leu Leu Trp Leu His Ile Lys
 50 55 60

His Ile Leu Val Ser Val Cys Leu Val Ile Ser Asn Ala Asn Ile Leu
 65 70 75 80

Ser Ala Pro Cys Pro Glu Cys
 85

<210> 150
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 150

Ser Ser Val Ala Leu Ala Leu Gly Ala Leu Thr Val Trp His Ala Val
 1 5 10 15

Leu Ile Ser Arg Gly Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys
 20 25 30

Glu Arg Arg Arg Leu Gln Ala Lys Gly Arg Val Ser Arg
 35 40 45

<210> 151

<211> 152

<212> PRT

<213> Homo sapiens

<400> 151

Met Val Pro Glu Val Leu Ile Leu Cys His Gly Leu Ala Val Trp Lys
 1 5 10 15

Trp Phe Pro Gly Leu Ala Val Leu Arg Ile Pro Gly Cys Val Thr Gly
 20 25 30

Asn Lys Pro Phe Asn Leu Pro Gly Thr Val Phe Phe Cys Lys Met Arg
 35 40 45

Gly Leu Gly Ala Ser Phe Leu Arg Pro Trp Gly Leu Val Ala Glu Phe
 50 55 60

Ile Ser Pro Thr Pro Cys Pro Ser Ser Tyr Gly Ser Thr His Lys Ala
 65 70 75 80

Phe His Ser His Lys Glu Lys Ala His Lys Val Pro Gln Pro Pro His
 85 90 95

Thr Gln Glu Pro His Leu His Pro Ser Leu Lys Ala Arg Leu Pro Leu
 100 105 110

Pro Gln His Thr Gln Val Leu Leu Gly Leu Pro Ala Leu Phe Ser Ser
 115 120 125

Ser Pro Glu Trp Asn Gly Pro Ala Met Ala Ser Gln Arg Thr Ala Ser
 130 135 140

Trp Gln Ser Trp Glu Trp Val Glu
 145 150

<210> 152
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (14)..(14)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (21)..(21)
 <223> X=any amino acid

<400> 152

Met Gly Leu Arg Val Leu Leu Leu Leu Gly Leu Ser Leu Xaa Met Ser
 1 5 10 15

Gln Lys Pro Leu Xaa Gln Arg Pro Thr Ala Leu Gly Pro
 20 25

<210> 153
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 153

Met Phe Leu Val Glu His Lys Val Cys Ser Gly Asn Thr Gln Val Ser
 1 5 10 15

Ile Lys Cys Leu Pro Val Val Ser Glu Lys Phe Val Met Lys Tyr Phe
 20 25 30

Gly Asn Arg Cys Ile Val Ser Val Gly Gly Ala Asp Glu Phe
 35 40 45

<210> 154
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 154

Met Thr His Ser Glu Leu Leu Leu Val Ile Thr Ile Asn His Lys Met
 1 5 10 15

Pro Gln Gly Pro Arg Val Thr Asn Trp Glu Pro Pro Pro Leu Thr Arg
 20 25 30

Ile Thr

<210> 155
 <211> 99
 <212> PRT
 <213> Homo sapiens
 <400> 155

Met Asp Ser Phe Leu Leu Leu Arg Gln Arg Glu Gly Gly Lys Arg Asn
 1 5 10 15

Phe Lys Arg Asn Leu Gln Thr Cys Cys Ala Val Gly Pro Thr Gly Ile
 20 25 30

His Gly Gly Glu Thr Asn Ser Ile Met Leu Leu Gln Ile Leu Leu Lys
 35 40 45

Lys Gly Phe Asn Cys Leu Thr Lys Tyr Ser Ser Phe Phe His Leu Leu
 50 55 60

Thr Leu Gln Pro Asn Gln Val Pro His Thr Thr Gly Arg Cys Arg Glu
 65 70 75 80

Ile Pro Gln Pro Glu Lys Ile Ile His Ala Gly Gln Arg Gln Lys Phe
 85 90 95

Thr Pro Gly

<210> 156
 <211> 55
 <212> PRT
 <213> Homo sapiens
 <400> 156

Met Gln Phe Leu Leu Cys Leu Ser Leu Leu Asp Phe Phe Ser Ser Thr
 1 5 10 15

Tyr Lys His Ala Val Met Ser Pro Asn Gln Lys Lys Cys Lys Asn Pro
 20 25 30

Phe Ser Pro Met Leu Thr His His Pro Ala Val Val Leu Phe Leu Pro
 35 40 45

Phe Thr Leu Leu Tyr Tyr Ser
 50 55

<210> 157
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 157

Met Leu Gln Val Asp Val Cys Thr Leu Met Val Arg Thr Trp Ser Ser
 1 5 10 15

Trp Pro Cys Trp Val Phe Ala Lys Glu Thr Val Leu Cys Ser Trp Gly
 20 25 30

Arg Phe His His Leu Ile Arg Ala Val Val Pro Thr Trp Cys Ser Leu
 35 40 45

Asp His Leu Tyr Lys Met Phe Ile Gly Gln Gly
 50 55

<210> 158
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (41)..(41)
 <223> X=any amino acid

<220>
 <221> MISC_FEATURE
 <222> (57)..(57)
 <223> X=any amino acid

<400> 158

Met Thr Lys Arg Met Glu Lys Cys Leu Asn Ile Tyr Lys Arg Leu Asp
 1 5 10 15

Val Tyr Arg Gln Ile Val Ser Lys Gly His Arg Ile Val Arg Asn Ser
 20 25 30

Val Ile Leu Phe Cys Val Ile Asn Xaa Pro Phe Leu Tyr Pro Phe Thr
 35 40 45

Leu Ile Ile Asp Ile His His Phe Xaa Val Ile Ile Gln Leu
 50 55 60

<210> 159

<211> 47
 <212> PRT
 <213> Homo sapiens

<400> 159

His Leu Asn Arg Phe Ala Asn Ser Val Lys Val Phe Thr Arg Arg His
 1 5 10 15

Ala Phe Val Lys Lys Phe Phe Arg Gly Ser Ala Cys Asn Cys Ala Glu
 20 25 30

Ser Ala Leu Leu Ser Ser Gln Leu Ala His Cys Val Gly Arg Trp
 35 40 45

<210> 160
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 160

Met Gln Glu Ala Glu Gly Arg Leu Asn Lys Pro Gln Gly Gly Arg Val
 1 5 10 15

Gly Ala Glu Arg Val Gly Asn Ile Phe Phe Leu Leu Leu Asn Ser Arg
 20 25 30

Lys Ala Lys Thr Gln Ser Lys Leu Phe Leu Ser
 35 40

<210> 161
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 161

Met Phe Gly Ile Leu Glu Lys Ser Ser Lys Tyr Val His Leu Glu Gly
 1 5 10 15

Ser Leu Lys His Pro Val Ile Lys Leu Val Ser Ile Ser Val Val Lys
 20 25 30

Asp Glu Tyr Ser Leu Ile Asn Lys Arg Asn Lys Tyr Leu Asn Ser Leu
 35 40 45

Thr Ser Ile Leu Asn Arg Phe Cys Gly Gln Met Arg Leu Pro
 50 55 60

<210> 162

<211> 78
 <212> PRT
 <213> Homo sapiens

<400> 162

Met Thr Pro Ala Leu Ala Ala Trp His Val Leu Ile His Pro Asn Val
 1 5 10 15

Cys Phe Leu Ala Pro Ala Asp Ser Leu Glu Gly Ser Ile Lys Glu Asp
 20 25 30

Trp Val Asn Met Asp Leu Glu Asn Ala His Leu Gln Arg Glu Asn Gly
 35 40 45

Gly Trp Ala Ala Phe Pro Ser Pro Ala Pro Val Pro Gly Ile Trp Pro
 50 55 60

Arg Ser Ala Ser Val Cys Phe Gly Ala Lys Leu Gln Ala Pro
 65 70 75

<210> 163
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 163

Met Ser Ser Trp Ile Pro Phe Ile Ile Thr Pro Leu Phe Ser Gly Ile
 1 5 10 15

Arg Leu Glu Ala Trp Cys Gln Phe Tyr Ser Ser Leu Tyr Pro Phe Ile
 20 25 30

His Phe Leu Ser Ile Leu Phe Pro Lys Tyr Phe Phe Ser Ala Pro Ser
 35 40 45

Pro Ala Ala
 50

<210> 164
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 164

Met Gly Ile Ile Pro Lys Cys Met Phe Leu Leu Gln Ser Arg Leu Met
 1 5 10 15

Gly Val Ile Thr Asn Thr Ser Leu Leu Leu His

20

25

<210> 165
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 165

Met Lys Val Leu Lys Tyr His Asn Glu Ala Cys Gly Phe Tyr Ser Val
 1 5 10 15

Val Trp Met Leu Ser Ser Ser Ile Pro Trp Met Pro Thr Gly Met His
 20 25 30

Cys Leu Ile Leu Glu Phe Lys Arg Trp Pro Gln Thr Val Arg Leu Ser
 35 40 45

Met Trp Pro His
 50

<210> 166
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 166

Met Gly Arg Lys Ser Thr Asn Lys Thr Ala Cys Thr His Ile Asn Thr
 1 5 10 15

Tyr Val Ser Thr Asn Asp Lys Leu Tyr Leu Tyr Arg Ala Trp Glu Gly
 20 25 30

Ser Tyr Ile Thr Leu His Val Ser His Pro Pro His Thr Ser Arg
 35 40 45

<210> 167
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 167

Met Cys Trp Gly Tyr Phe Ser Ile Ser Lys Lys Phe Pro Asn Leu Thr
 1 5 10 15

Ser Val Leu Met Asn Leu Gly Thr Asp Leu Ala Val Arg Pro Thr Ser
 20 25 30

Ile Phe Pro Thr Asp Ser Ile Leu Leu Glu

35

40

<210> 168
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 168

Met Asn Lys Ile Lys Gly Lys Ser Val Leu Phe Tyr Met Pro Glu Thr
 1 5 10 15

Ser Arg Ile Phe Arg Lys Val Gln Phe Lys Glu Asn Gln Ala Ala Leu
 20 25 30

Asp Ser Thr Asn Lys Asn Val Ser Leu Ser Glu Glu Leu Val Asn Gln
 35 40 45

Gly Thr Gln Ser Ala Phe Ser
 50 55

<210> 169
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 169

Met Met His Met Gln Leu Ile Ser Glu Phe Ser Cys Leu Cys Cys Phe
 1 5 10 15

Phe Phe Leu Gly Ile Tyr Ile Lys
 20

<210> 170
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 170

Met Ile His Leu Ser Glu Val Ser Gly His Leu Lys Glu Arg Lys Gly
 1 5 10 15

Lys Ala Ser Cys Gln Lys Gln Lys His Val Leu Tyr Lys Arg Phe Lys
 20 25 30

Asn Gln Asn Gly Ile Arg Leu Ser Asn Cys Lys Arg Gln Ser Ser Ala
 35 40 45

Phe Lys Ile Leu Arg Lys Asn Asn Val Tyr Ile Lys Ile Phe Ile Ile

50

55

60

Ile Phe Asn Phe
65

<210> 171
<211> 100
<212> PRT
<213> Homo sapiens

<400> 171

Ser Phe Ala Phe Phe Phe Ser Leu Arg Gln Ser Leu Thr Leu Ser Pro
1 5 10 15

Arg Leu Glu Cys Ser Gly Thr Ile Ser Ala His Cys Asn Leu Cys Leu
20 25 30

Leu Gly Ser Ser Asn Ser Ser Ala Ser Ala Ser Gln Val Ala Gly Ile
35 40 45

Thr Gly Thr His His His Ala Gln Val Ile Phe Ile Phe Phe Ile Glu
50 55 60

Met Gly Phe Arg His Ile Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser
65 70 75 80

Gly Asp Pro Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Val
85 90 95

Arg His His Thr
100

<210> 172
<211> 58
<212> PRT
<213> Homo sapiens

<400> 172

Met Glu Cys Leu Ser Ile Asn Leu Thr Lys Asn Val Ser Tyr Leu Tyr
1 5 10 15

Thr Gly Pro Leu Asn Thr Ser Glu Thr Lys Leu Lys Ser Tyr Leu Ile
20 25 30

Gly Asn Gln Phe Pro Pro Arg Phe Ile Tyr Arg Val Ser Glu Ile Pro
35 40 45

Ile Lys Ile Ser Ala Arg Ser Leu Arg Asn
 50 55

<210> 173
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 173

Met Asp Lys Glu Glu Ser Ala Val Leu Val Gly Gly Ser Ile Leu Pro
 1 5 10 15

Asp Lys Leu Phe Leu Val Gly Phe Thr Asp Thr Ser Pro Asp Leu Leu
 20 25 30

Pro Ala Ala Thr Val Cys Phe Tyr Asp Ala Cys His His Asp Ile
 35 40 45

<210> 174
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 174

Met Thr His Val Gln Leu His Ala Leu Asp Leu Leu Leu Lys Asp Glu
 1 5 10 15

His Lys Ser Glu Ile Ser Thr Pro Trp Gln Pro Tyr Tyr Gln Leu Leu
 20 25 30

Ile Cys Ser Pro His Val Ser Thr Pro Phe Leu Ala Thr Ser Phe Cys
 35 40 45

Pro Ser His Ile Asn Thr Cys Gly Gln Trp Leu Thr Met Leu Lys Leu
 50 55 60

Lys Leu Tyr Pro Asp Glu Ile Leu Lys Arg Asn His Leu Cys Ser Ser
 65 70 75 80

Val Leu Thr Gln Glu Ser Gln His Val Phe Leu Phe Gln Glu Thr Ile
 85 90 95

Ile Ile Cys Thr Asn Ile Tyr Pro Asp Asn
 100 105

<210> 175
 <211> 35
 <212> PRT

<213> Homo sapiens

<400> 175

Met Ser Met Leu Arg Lys Gly Leu Lys Ser Phe Phe Ser Val Cys Val
1 5 10 15

Leu Pro Ser Glu Pro Asn Ile Gly Ile Ser Ala Ser Lys Ile Pro Gln
20 25 30

Gly Gln Glu
35

<210> 176

<211> 54

<212> PRT

<213> Homo sapiens

<400> 176

Met Ser Ser Ser Pro Leu Val Ser Ala Lys Phe Ser Phe Leu Phe His
1 5 10 15

Glu Gly Arg Ala Pro Ser Leu Phe His Pro Leu Met Thr Ser Gln Pro
20 25 30

Leu Glu Phe Cys Leu Met Met Asp Phe Ser Glu Ile Cys Leu Cys Asn
35 40 45

Glu Asp Lys Asp Ser Gly
50

<210> 177

<211> 20

<212> PRT

<213> Homo sapiens

<400> 177

Met Arg Pro Leu Lys Met Ile Arg Thr Ala Lys Lys Leu Phe Val Tyr
1 5 10 15

Leu Gly Ser Tyr
20

<210> 178

<211> 66

<212> PRT

<213> Homo sapiens

<400> 178

Met Met Tyr Tyr Pro Asp Asp Leu Trp Asn Leu Leu Arg Asn Arg Asp
 1 5 10 15

Cys Val Ala Phe Leu Ile Met Gly Thr Gly Pro Ser Leu Leu Arg Leu
 20 25 30

Pro Met Cys Val Gly Thr Glu Leu Leu Trp His Ser Ser Ser Arg Leu
 35 40 45

Met Glu Leu Ser Ser Ser Glu Ala Ser Trp Val Val His Ala Asn Leu
 50 55 60

Val Leu
 65

<210> 179
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 179

Met Cys Val Ile Tyr Gln Arg Gly Ile Cys Asp Glu Lys Lys Asn Leu
 1 5 10 15

Lys Cys Pro Gln Met Phe Gln Leu Ser Glu Thr Glu Lys Thr Leu Thr
 20 25 30

Ser Val Phe Arg Ile Ile Val Ser Asn Ile Leu Lys Ile Asp Val Ser
 35 40 45

Ser Val Met Ile Phe Leu Arg Leu His Gln Arg Thr Ser Leu Asn Leu
 50 55 60

Ser Val Ile Gln Asn Gln
 65 70

<210> 180
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 180

Met Asn Pro Val Cys Trp Val Gly Phe Gly Glu Val Asn Ile Glu His
 1 5 10 15

Met Glu Phe Lys Tyr Ile Glu Met Asp Thr Val Ile Glu Met
 20 25 30

<210> 181
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 181

Met His Ala Cys Gly Ser Leu Arg Leu Asp Lys Asp Pro Thr Thr Leu
 1 5 10 15

Leu Cys Val Asn Thr Arg Cys Thr Arg Ser His Leu Pro Gly Ala Gly
 20 25 30

Gly Trp Trp Arg Lys Val Lys Ser Gln Gln Thr Val His Arg Thr Tyr
 35 40 45

Ser Ala Thr Gly Lys Lys Ser
 50 55

<210> 182
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 182

Met Pro Ala Leu Arg Glu Ala Phe Pro Gln Ala Pro Leu Ala Leu Ala
 1 5 10 15

<210> 183
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 183

Met Thr Phe Gln Lys Leu Met Ile Leu His Ile His Asp Gln Met Phe
 1 5 10 15

Ser Leu Met Glu Ala Ser Asp Val Cys Ser His Gln Ile Arg Phe Lys
 20 25 30

Met Ser Val Ser Ser Lys Ser Ser Lys Thr Ser Pro Ser His Gln Lys
 35 40 45

<210> 184
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 184

101

Met Ser Val Leu Lys Arg Phe Leu Lys Pro Ser Leu Ser Ile Ala Lys
1 5 10 15

Thr Cys Tyr Val His Tyr Pro Pro Asn Ser Tyr Leu Lys Thr Thr Pro
20 25 30

Lys Met Leu Tyr Phe Val Phe Lys Val Arg Glu Glu Asn Arg Gly Glu
35 40 45

Val Phe Leu Cys Ser Phe Pro
50 55

<210> 185
<211> 14
<212> PRT
<213> Homo sapiens

<400> 185

Met Trp Leu Arg Asp Leu Asn Tyr Lys Ile Ala Arg Leu Asp
1 5 10

<210> 186
<211> 42
<212> PRT
<213> Homo sapiens

<400> 186

Met Met Phe Phe Tyr Ile Phe Cys Ser Met Gly Leu Leu Ile Pro Phe
1 5 10 15

Ser Thr Leu Lys Met Leu Leu Ile Val Phe Pro Leu Ser Leu Phe Pro
20 25 30

Lys Arg Asn Leu Leu Ser Phe Leu Ser Leu
35 40

<210> 187
<211> 100
<212> PRT
<213> Homo sapiens

<400> 187

Leu Phe Phe Phe Leu Arg Trp Ser Leu Ala Leu Val Thr Gln Ala Gly
1 5 10 15

Val Gln Val Val Asp Ile Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe
20 25 30

Lys Gln Phe Ser Cys Pro Ser Leu Leu Ser Ser Trp Asp Tyr Arg His
 35 40 45

Gly Pro Pro Arg Pro Ala Asn Phe Phe Val Phe Leu Val Glu Met Gly
 50 55 60

Phe His His Val Gly Gln Ala Gly Pro Glu Leu Leu Thr Ser Ser Asp
 65 70 75 80

Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
 85 90 95

Leu Thr Trp Pro
 100

<210> 188
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 188

Met Ser Cys Leu Trp Pro Ser Leu Asp Leu Pro Ser Leu Ser His Ser
 1 5 10 15

Lys Gln Ser Ser Ser Gln Ala Glu Gly Gln Val Thr Ser His Thr Arg
 20 25 30

Gln Arg Phe Pro Asp Gly Ala His Leu His Pro Ser Leu Thr Leu Val
 35 40 45

Leu Ser Gln Asp Ala Pro Leu Arg Leu Ala Pro Pro Thr Leu Cys Leu
 50 55 60

Leu Cys Tyr Trp Ala Ser Leu Pro Ser Pro Arg Thr Pro Glu Leu Leu
 65 70 75 80

Asn Ala Gly Gln Lys Ser Ile Pro Asp Leu Gln Gln Arg His Phe Asp
 85 90 95

Ile Lys Glu Met Ala Leu Asp Phe Cys Leu
 100 105

<210> 189
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 189

Met Val Ile Ser Arg Ile Ser Ile Leu Arg Lys Met Thr Lys Phe His
 1 5 10 15

Lys Phe Cys Ser Gln Leu Thr Glu Pro Gly Arg Arg Thr Gln Pro Lys
 20 25 30

Glu Asn Pro Trp Ser Leu Tyr Asp Thr Asp Trp Leu Glu Lys
 35 40 45

<210> 190
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 190

Met Ser Arg Val Arg Ala Glu Lys Pro Gly Arg Val Ala Lys Leu Ala
 1 5 10 15

Ala Cys Arg Pro Leu Pro Arg Leu Gln Met Ser Gly Ser Ile Pro Leu
 20 25 30

His Lys Cys Lys Glu Lys Ala Ser Met Pro Pro Leu Trp Ser
 35 40 45

<210> 191
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 191

Met Arg Pro Ala Arg Leu Gly Pro Arg Cys Ser Asp Leu Asp Phe Gly
 1 5 10 15

Leu Val Leu Ser Ser Trp Leu Arg Leu Ala Arg Cys Pro Leu Glu Ser
 20 25 30

Ser Phe Gly Phe Ala Phe Phe Val Cys Leu Phe Ser Pro Asn Phe Cys
 35 40 45

Gln Thr
 50

<210> 192
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 192

Met Glu Gly Thr Val Gly Gln Ala Lys Met Val Glu Lys Trp Met Arg
 1 5 10 15

Pro Thr Leu Leu Met Ser Leu Arg Gly Leu Gly Glu Arg Ser Asn Glu
 20 25 30

Pro His Val Ser Pro Glu Ser Ser Ala Ala Pro Lys Ala Gly Pro Ser
 35 40 45

Leu Glu Asp Cys Glu Arg Glu Asp Gly Ser Ile Arg Thr Gly Trp Asp
 50 55 60

Thr Ala Pro Thr Lys Glu Ser Pro Thr Ser Cys Ala
 65 70 75

<210> 193
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 193

Arg Thr Val Cys Thr Lys Val Ser Cys Pro Val Gln Leu Pro Ala Asp
 1 5 10 15

Trp Thr Cys Lys Val Gln Pro Val Trp Leu Glu Phe Pro Cys Leu Pro
 20 25 30

Ile Ser Cys Arg Leu Arg Val Ser Ser Asp Thr Ser Pro Asp Ser Ala
 35 40 45

Thr Trp Gly Ser Trp Lys
 50

<210> 194
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 194

Met Glu Pro Arg Ile Pro Val Lys Thr Phe Ser Phe Asp Lys Arg Ile
 1 5 10 15

Leu Ile Arg Ile Leu Tyr Gln Ile Glu Gln Lys
 20 25

<210> 195
 <211> 17

<212> PRT
 <213> Homo sapiens

<400> 195

Met Leu Gln His Leu Arg Leu Thr Ile Trp Gly Glu Cys Val Trp Val
 1 5 10 15

Phe

<210> 196
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 196

Met Arg Asn Val Ser Leu Ile Ser Cys Glu Asp Ala Asp Phe Thr Glu
 1 5 10 15

Ala Leu Cys Asn Ile Trp Phe Val His Gln Thr Met Leu Ile Asp Cys
 20 25 30

Arg Ser His Leu Leu Pro Arg Trp Leu Thr Lys Thr Val Gly Ser Leu
 35 40 45

Leu Lys Pro
 50

<210> 197
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 197

Met Ser His Gly Gln Val Leu Gly Asp Val Ala Gly Lys Val Gly His
 1 5 10 15

Ala Leu Gly Thr Glu Asp Gln Thr Phe Ala Val Glu Val Leu Lys Glu
 20 25 30

Thr Thr Pro Phe Phe Arg Ala Ser Ser Gly Pro Thr Gly Asp Pro Trp
 35 40 45

Cys Pro Asp His Lys Ile Gln Ser Lys Pro Val Ser Leu Ser
 50 55 60

<210> 198
 <211> 400

<212> PRT

<213> Homo sapiens

<400> 198

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro
 1 5 10 15

Ala Phe Leu Leu Ile Pro Glu Lys Ser Asp Leu Arg Thr Val Ala Pro
 20 25 30

Ala Ser Ser Leu Asn Val Arg Phe Asp Ser Arg Thr Met Asn Leu Ser
 35 40 45

Trp Asp Cys Gln Glu Asn Thr Thr Phe Ser Lys Cys Phe Leu Thr Asp
 50 55 60

Lys Lys Asn Arg Val Val Glu Pro Arg Leu Ser Asn Asn Glu Cys Ser
 65 70 75 80

Cys Thr Phe Arg Glu Ile Cys Leu His Glu Gly Val Thr Phe Glu Val
 85 90 95

His Val Asn Thr Ser Gln Arg Gly Phe Gln Gln Lys Leu Leu Tyr Pro
 100 105 110

Asn Ser Gly Arg Glu Gly Thr Ala Ala Gln Asn Phe Ser Cys Phe Ile
 115 120 125

Tyr Asn Ala Asp Leu Met Asn Cys Thr Trp Ala Arg Gly Pro Thr Ala
 130 135 140

Pro Arg Asp Val Gln Tyr Phe Leu Tyr Ile Arg Asn Ser Lys Arg Arg
 145 150 155 160

Arg Glu Ile Arg Cys Pro Tyr Tyr Ile Gln Asp Ser Gly Thr His Val
 165 170 175

Gly Cys His Leu Asp Asn Leu Ser Gly Leu Thr Ser Arg Asn Tyr Phe
 180 185 190

Leu Val Asn Gly Thr Ser Arg Glu Ile Gly Ile Gln Phe Phe Asp Ser
 195 200 205

Leu Leu Asp Thr Lys Lys Ile Glu Arg Phe Asn Pro Pro Ser Asn Val
 210 215 220

Thr Val Arg Cys Asn Thr Thr His Cys Leu Val Arg Trp Lys Gln Pro
 225 230 235 240

Arg Thr Tyr Gln Lys Leu Ser Tyr Leu Asp Phe Gln Tyr Gln Leu Asp
 245 250 255

Val His Arg Lys Asn Thr Gln Pro Gly Thr Glu Asn Leu Leu Ile Asn
 260 265 270

Val Ser Gly Asp Leu Glu Asn Arg Tyr Asn Phe Pro Ser Ser Glu Pro
 275 280 285

Arg Ala Lys His Ser Val Lys Ile Arg Ala Ala Asp Val Arg Ile Leu
 290 295 300

Asn Trp Ser Ser Trp Ser Glu Ala Ile Glu Phe Gly Ser Asp Asp Gly
 305 310 315 320

Asn Leu Gly Ser Val Tyr Ile Tyr Val Leu Leu Ile Val Gly Thr Leu
 325 330 335

Val Cys Gly Ile Val Leu Gly Phe Leu Phe Lys Arg Phe Leu Arg Ile
 340 345 350

Gln Arg Leu Phe Pro Pro Val Pro Gln Ile Lys Asp Lys Leu Asn Asp
 355 360 365

Asn His Glu Val Glu Asp Glu Ile Ile Trp Glu Glu Phe Thr Pro Glu
 370 375 380

Glu Gly Lys Gly Tyr Arg Glu Glu Val Leu Thr Val Lys Glu Ile Thr
 385 390 395 400

<210> 199

<211> 10

<212> PRT

<213> Homo sapiens

<400> 199

Met Asp Arg Met Glu Lys Arg Gln Thr Asp
 1 5 10

<210> 200

<211> 20

<212> PRT

<213> Homo sapiens

<400> 200

Met Cys Tyr Ala Thr Leu His Gln Ile Asn Phe Leu Gln Thr Val Leu
 1 5 10 15

Val Pro Gly Leu
 20

<210> 201
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 201

Met Cys Leu Cys Cys Trp Leu Tyr Trp Glu Glu Tyr Gly Pro Leu Ser
 1 5 10 15

Leu Thr Gln Glu Phe His Val Phe Cys Gln Asp Thr Leu His Gly
 20 25 30

<210> 202
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 202

Met Asn His Ser Leu Ser Ala Phe Gln Arg Ala Leu Gln Val Leu Ile
 1 5 10 15

Phe Lys Met Ser Val Tyr Ala Ser Gly Pro Arg Leu Glu Lys Lys Val
 20 25 30

Gly Asn Lys Leu Glu Gly Gly Arg Lys Gln Glu Arg Asn Val Thr Tyr
 35 40 45

Met Ala Asp Glu Gly Phe
 50

<210> 203
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 203

Met Ile Lys Ala Tyr His Pro Tyr Phe Glu Asn Phe Asn His Arg Ala
 1 5 10 15

Gln Tyr Val Ser Asn Lys Leu Lys Lys Tyr Ser Phe Gln Leu His Phe
 20 25 30

Asp Gly His
35

<210> 204
<211> 76
<212> PRT
<213> Homo sapiens

<400> 204

Met Lys Met Val Asn Arg His Met Lys Trp Lys Ser Ser Ala Leu Ser
1 5 10 15

Asp Leu Val Cys Ile Ser Thr Glu Ile Gln Ala Gly Leu Thr Arg His
20 25 30

Thr Ser His Asn Phe Gln Cys His Cys Thr Ile Ile Leu Thr Val Val
35 40 45

Ser Phe Phe Gln Ser Thr Glu Lys Gln Ala Asp Lys Pro Arg His Leu
50 55 60

Asn Val Thr Trp Leu Met Thr Leu Ile Ser Thr Leu
65 70 75

<210> 205
<211> 94
<212> PRT
<213> Homo sapiens

<400> 205

Met Glu Gly Gln Asp Ser Leu Arg Asp Val Gly Ala Leu Ser His Leu
1 5 10 15

Ala His Thr Asp Arg Ser Trp Leu Gly Arg Ala Gly Val Ser Ala Trp
20 25 30

Arg Pro Ser Ala Ala Gly Asp Pro Gly Phe His Glu Val Gly Gly Val
35 40 45

His Ala Gly Thr Ser Gln Leu Ala Gly Pro Gly Gly His Pro Gly Gly
50 55 60

Ala Gly Ala Trp Gly His Glu Phe Thr Lys Val Ala Gln Gly Gln Glu
65 70 75 80

Glu Thr Val Val Ala Glu Gly Pro Leu Val Glu Ala Trp Ala
85 90

<210> 206
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 206

Met Pro Gln Asp Gln Asp Pro Pro Arg Glu Glu His Ala Ala Leu Arg
 1 5 10 15

Val Leu Phe Pro Arg Val Pro Leu Ala Val Pro His Gln Leu Gly Gly
 20 25 30

Glu Leu Glu Arg Ala Asp Arg Arg Thr Gly Phe Ser Ala Cys Ala Asn
 35 40 45

Ile Leu Thr Cys Pro
 50

<210> 207
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 207

Trp Ser Thr Pro Pro Phe Asp Pro Arg Phe Pro Ser Gln Asn Gln Ile
 1 5 10 15

Arg Asn Cys Tyr Gln Asn Phe Leu Asp Tyr His Arg Cys Leu Lys Thr
 20 25 30

Arg Thr Arg Arg Gly Lys Ser Thr Gln Pro Cys Glu Tyr Tyr Ser Cys
 35 40 45

Val Tyr His Ser Leu Cys Pro Ile Ser Trp Val Glu Ser Trp Asn Glu
 50 55 60

Gln Ile Lys Asn Gly Ile Phe Ala Gly Lys Ile
 65 70 75

<210> 208
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 208

Met Arg Val Leu Arg Lys Glu Ser Pro Ser Arg His Val Leu Lys Asn
 1 5 10 15

Met Glu Ser Ala Thr Gly Glu Glu Lys Gly Asn Arg
35 40

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<220>
<221> MISC_FEATURE
<222> (80)..(80)
<223> X=any amino acid
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Met His Arg Lys Lys Lys Leu Glu Ser Phe Leu Leu Leu Ile Pro Pro
1 5 10 15

Ser Thr Gly Pro Cys Pro Gln Asp Ser Met Glu Gln Pro Val Thr Lys
35 40 45

Arg Leu Ala Leu His Pro Ser Pro Pro Arg Ser Phe Pro Leu Lys Xaa
65 70 75 80

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<210> 210
<211> 40
<212> PRT
<213> Homo sapiens
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Met Thr Arg Phe Ser Gln Ala Ser Ser Ser Lys Asp Lys Thr Pro Pro
1 5 10 15

Leu Pro Ser Met Val Gln Ala Thr Val Leu Val Lys Lys Tyr Ile Phe
20 25 30

Thr Lys Lys Lys Ser Tyr Val Leu
 35 40

<210> 211
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 211

Met Pro Arg Pro Thr Glu Gly Glu Gly Ser Thr Glu Asp Arg Asp Pro
 1 5 10 15

Ile Gly Ile Gln Ser Gln Thr Arg Ala Glu Pro Thr Val Glu Gln Leu
 20 25 30

Met Ser Gly Ala Lys Asp Thr Ser Trp Asn Pro Pro Asp Gly Ser Ser
 35 40 45

Asn Pro Lys Arg Ala Gly Leu Gln Val Gly Leu Asn Trp Arg Asp Pro
 50 55 60

Gln Glu Ser Gly Arg Arg Asn Thr Arg Ala Phe Leu Glu Glu Gly Thr
 65 70 75 80

Phe Ile Leu Asp Ser Asn Gln
 85

<210> 212
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 212

Met Met Pro Gly Pro Ala Ala Leu Ile Pro Pro Thr Ala Thr Ala Cys
 1 5 10 15

Leu Leu Val Val Ala Arg Gly Ser Ser Val Pro Lys Asp Ser Ser Leu
 20 25 30

Phe Cys Ile Thr Val His
 35

<210> 213
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 213

Met Ser Leu Leu Asp Ala Ser Ser Leu Lys Pro Tyr Asp Ser Phe Leu
 1 5 10 15

Leu Ala Val Leu Phe Leu Thr Arg Asp Asn Lys Gly Phe Ala Ser Gln
 20 25 30

Val Cys Met Ala Lys Lys Val Ser Thr Ser Val Asn Gly Ser Phe Leu
 35 40 45

Met Thr Ser Gln Gln Pro Leu Val Lys Asp Val Ile Glu Ile Val Gln
 50 55 60

Arg Leu Gly Ser Val Cys Phe Val Leu Leu Leu Lys Ser Phe His Gly
 65 70 75 80

Ser Lys Leu Phe Leu Ser Ile Val
 85

<210> 214
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 214

Met Val Ile Arg Glu Leu Leu Gly Gly Gln Lys Tyr Pro Asn Pro Val
 1 5 10 15

Gln Gly Arg Asp Pro Trp Thr Val Thr Val Leu Ser Ala Phe Gly Arg
 20 25 30

Glu Gly Asp Ser Glu Ala Gln Thr Arg Ile
 35 40

<210> 215
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> X=any amino acid

<400> 215

Met Pro Asn Cys Ser Val Glu Leu Arg Gly Tyr Tyr Tyr Asn Phe Val
 1 5 10 15

114

His Tyr Tyr Lys Tyr Phe Ile Leu Val Val Tyr Ser Thr Ala Asp Ser
20 25 30

Asn Gln Lys Thr Lys Ile Gln Lys Tyr Tyr Ile Leu Glu Xaa Ile Ile
35 40 45

Met

<210> 216
<211> 37
<212> PRT
<213> Homo sapiens

<220>
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<223> X=any amino acid

<220>
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<223> X=any amino acid

<400> 216

Met Glu Met Leu Glu Xaa Lys Xaa Thr Ile Ile Asp Ile Val Ser Leu
1 5 10 15

Leu Ala Leu Ser Gly Asp Leu Thr Gln Leu Arg Lys Ser Leu Val Thr
20 25 30

Leu Lys Ile Cys Arg
35

<210> 217
<211> 72
<212> PRT
<213> Homo sapiens

<400> 217

Met Gly Ser Tyr Gly Leu Leu Phe Lys Phe Tyr Gly Ala Ile Phe Thr
1 5 10 15

Ser Val Ala Gln Gly Trp Ser Val Leu His Leu Arg Lys Val Ser Leu
20 25 30

Gly Lys Cys Pro Cys His Pro Ser His Ser Arg Gln Ala Ala Ser Ser
35 40 45

Ala Phe Ser Ser Ser Ser Ser His Ala Trp Ser Ser Pro Phe Val Ile
 50 55 60

Phe Ser Ser Leu Thr Pro Ser Leu
 65 70

<210> 218
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 218

Met Gly Ser Phe Ser Pro Leu Thr Tyr His Leu Gly His Trp Asn Met
 1 5 10 15

Ala Ala Cys Gly Ser Val Cys Glu Gly Pro Gly Asp Gly Gln Gly Gly
 20 25 30

Ser Ala Leu Phe Cys Phe Tyr Gln His Cys Ser Met Asn Val Phe Leu
 35 40 45

Thr

<210> 219
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 219

Met Leu Thr Arg His His Pro Leu Asn Val Leu Leu His Arg Leu Cys
 1 5 10 15

Leu Asn Trp Leu Glu Glu Asn Asn Tyr Pro Arg Asn Thr Asp Tyr Leu
 20 25 30

Ile Phe

<210> 220
 <211> 34
 <212> PRT
 <213> Homo sapiens
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 <222> (17)..(17)
 <223> X=any amino acid

<400> 220

Met Leu Leu Leu Pro Ala Thr Phe Leu Pro Thr Ser His Ala Arg Pro
 1 5 10 15

Xaa Gln Pro His Cys His Thr Thr Cys Leu Ile Thr Ser His Val Leu
 20 25 30

Thr His

<210> 221

<211> 111

<212> PRT

<213> Homo sapiens

<400> 221

Met Gly Pro Ser Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln
 1 5 10 15

Leu Ile Asn Leu Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp
 20 25 30

Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro
 35 40 45

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
 50 55 60

Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr
 65 70 75 80

Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
 85 90 95

Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
 100 105 110

<210> 222

<211> 111

<212> PRT

<213> Homo sapiens

<400> 222

Met Gly Pro Ser Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln
 1 5 10 15

117

Leu Ile Asn Leu Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp
20 25 30

Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro
35 40 45

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
50 55 60

Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr
65 70 75 80

Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
85 90 95

Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
100 105 110

<210> 223
<211> 83
<212> PRT
<213> Homo sapiens

<400> 223

Met Asn Val Glu Ala Arg Glu Gln Cys Asp Val Gln Leu Ser Asp Leu
1 5 10 15

Thr Trp His Leu Ile Trp Leu Glu Val Pro Pro Leu Leu Ser Val Pro
20 25 30

Trp Leu Trp Ala His Gly Leu Ala Glu Pro Ser Tyr Gly Phe Arg Phe
35 40 45

Thr Cys Tyr Asn Ile Gln Arg Gln Cys Thr Ser Leu Pro Arg Lys Leu
50 55 60

Cys Ser Arg His Pro Phe Val Thr Leu Ile Ser Ile Met Asp Thr Thr
65 70 75 80

Thr Phe Tyr

<210> 224
<211> 132
<212> PRT
<213> Homo sapiens

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 <223> X=any amino acid

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 <223> X=any amino acid

<400> 224

Met Asp Xaa Thr Arg Val His Asp Asp Glu Xaa Val Ile Xaa Gly Asp
 1 5 10 15

Val Phe Val His Glu Val Thr Pro Gly Pro His Arg Trp Val Leu Val
 20 25 30

Arg Pro Phe Cys Leu Glu Val Arg Ala Val Phe Leu Arg Leu Trp Tyr
 35 40 45

Tyr Arg Gly Glu Lys Glu Glu Glu Leu Glu Val Arg Glu Arg Ser Cys
 50 55 60

Arg Leu Gly Arg Cys Asp Gln Gly Gln Arg Asp Gly Val Gln Glu Ala
 65 70 75 80

Cys Ser Ser Val Ser Cys Ser Leu Arg Gln Glu Val Ser Pro Ser Ser
 85 90 95

Gln Leu Asp Met Arg Ser Leu Leu Gly Val Pro Leu Ala Glu Val Glu
 100 105 110

Pro Val Ala Gln His Pro Pro Asn Glu Gly Arg Gly Arg His Leu Gly
 115 120 125

Gln Cys Leu Leu
 130

<210> 225
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 225

Met Ile Asn Asn Ser Asn His Asn Asn Ser Ser Ser Ser Lys Leu Arg
 1 5 10 15

Ala Ser Tyr Val Gln Ala Phe Ser Lys His Phe Thr Cys Ile Thr Pro
 20 25 30

Leu Val Ile Thr Thr Pro
 35

<210> 226
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 226

Met Ser Thr Phe Thr Val Leu Lys Asn Thr His Gln Leu Lys Lys Asn
 1 5 10 15

Thr Leu Phe Pro Phe Leu Gly His Leu Asn Leu Arg Glu Gln Leu Leu
 20 25 30

Tyr Lys Asn Asp Ile Lys Ile Ile His Phe Gly Ser Met Phe Leu Thr
 35 40 45

Val Leu Arg Gly Cys Met Val Lys Leu Lys
 50 55

<210> 227
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 227

Met His Met His Ile Phe Leu Cys Leu Tyr Asn Leu Cys Asn Ile Cys
 1 5 10 15

Glu Cys Asn Thr Phe Ser Phe Phe Leu Leu
 20 25

<210> 228
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 228

Met Leu Asp Val Met Arg Gln Val Ala Arg Ser Trp Leu Thr Ala Met
 1 5 10 15

Glu Arg Leu Leu Leu Pro Ala Ala Val Arg Phe Ser Ala Ile Trp Leu
 20 25 30

Ala Gly Gln Phe Ala Met Ala Trp Leu Leu Gln Leu Ile Leu Gly
 35 40 45

<210> 229
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 229

Met Gly Asn Ile Gly Glu Thr Leu Ser Leu Lys Lys Lys Arg Arg Ala
 1 5 10 15

Gly Gly Glu Ser Val Lys Asp Pro Gly Ser Thr Asp Thr Gly Gly Gln
 20 25 30

Arg Thr Arg Val Gly Val Ser Ser Asn Asp Ser Val Gly Ser Met Gly
 35 40 45

Ala Val Gly Arg Glu
 50

<210> 230
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 230

Met Val Ile Asn Ser Cys Ile Ile Pro Leu Pro Ser Gln Ala Thr Ile
 1 5 10 15

Pro Glu Pro Trp Pro His Gly Ala Cys Ile Phe Arg Ile Gln Thr Pro
 20 25 30

Trp Gly Ser Ser Pro Leu Leu Pro Ser Leu Ser Ser His Pro Leu Thr
 35 40 45

His Leu Ser Cys Tyr Leu Ser Leu Glu Ile Pro Lys Met Met Cys Val
 50 55 60

Met Glu Arg Leu Glu His Gln Leu Gln Asn His Pro Val Thr Leu Ala
 65 70 75 80

<210> 231
 <211> 40

<212> PRT
 <213> Homo sapiens

<400> 231

Met Phe Gln Arg Phe Leu Ala Lys Val Thr Val Trp Met Val Val Pro
 1 5 10 15

Leu Thr Lys Thr Ala Met Asn Ala Lys Arg Ala Ser Phe Val Gly Arg
 20 25 30

His Lys Ile Ile Phe Arg Ile Cys
 35 40

<210> 232
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 232

Met Leu Leu Tyr Leu Ile Thr Arg Gly Asp Val Glu Asn Gly Cys Phe
 1 5 10 15

Ile Phe Ser Val Val Phe Ala Leu
 20

<210> 233
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 233

Met Pro Pro Arg Gly Leu Pro His Phe Ser Pro His Pro Thr Arg Gln
 1 5 10 15

Phe Leu Phe Leu Phe Pro Leu His Thr Lys
 20 25

<210> 234
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 234

Met Ser Tyr Glu Ile Leu Val Asn Thr Asp Phe Met Ser Pro Phe Leu
 1 5 10 15

Arg Thr Leu Leu Val Cys Phe His Leu Tyr Ala Leu Ile Arg Ala Asn
 20 25 30

Asn Leu Lys Tyr Pro
35

<210> 235
<211> 40
<212> PRT
<213> Homo sapiens

<400> 235

Met Gly Lys Gly Leu Arg Leu Gly Val Ser Ile Ile Leu Val Lys Ser
1 5 10 15

Phe Phe Thr Tyr Ser Ser Lys Asp Val Asn Tyr Phe Ser Ile His Ser
20 25 30

Asn Ile Lys Ala Val Phe His Phe
35 40

<210> 236
<211> 40
<212> PRT
<213> Homo sapiens

<400> 236

Met Glu Glu Thr Gly Pro Leu Pro Ser Gly Ser Ser Leu Ser Asp Gln
1 5 10 15

Gly Glu Thr Ala Leu Ala Leu Gly Asn Ser Arg Ser Asp Gly Gly Arg
20 25 30

Gln Ser Ser Ser Ser Met Asn Ala
35 40

<210> 237
<211> 50
<212> PRT
<213> Homo sapiens

<400> 237

Met His Lys Gln Ser Met Ala Arg Ser Ile Leu Arg Ser Pro Leu Gln
1 5 10 15

Gln Ile Pro Pro Lys Gly Glu Ala Gly Arg Trp Arg Trp Ala Glu Ala
20 25 30

Ser Cys Val Leu His Thr Phe Ser Thr Ile Leu Asp Phe Leu Phe Phe
35 40 45

Phe Phe
50

<210> 238
<211> 49
<212> PRT
<213> Homo sapiens

<400> 238

Ser Ser Trp Gly Asp Ser Phe Ala Val Ser Ala Ala Trp Ala Arg Lys
1 5 10 15

Gly Ile Glu Glu Trp Ile Gly Arg Gln Arg Cys Pro Gly Gly Val Ser
20 25 30

Gly Pro Arg Gln Leu Arg Leu Ala Gly Thr Ile Gly Arg Ser Thr Arg
35 40 45

Glu

<210> 239
<211> 54
<212> PRT
<213> Homo sapiens

<400> 239

Met Leu Arg Pro Leu Thr Val Ala Ser Lys Arg Leu Leu Thr Ile Ser
1 5 10 15

Thr Leu Lys Ser Pro Leu Val Gly Leu Cys Ser Phe Ser Lys Ser Gly
20 25 30

Val Leu Arg Glu Gln Ala Leu Phe Ser Ile Ile Asn Leu Ile Asn Thr
35 40 45

Asp Trp Gln Lys Gln His
50

<210> 240
<211> 23
<212> PRT
<213> Homo sapiens

<400> 240

Met Lys Lys Lys Ser Tyr Pro Asp Lys Ile Asn Gln Cys Phe Ile Phe
1 5 10 15

Leu Glu His Gln Asn Leu Leu
20

<210> 241
<211> 59
<212> PRT
<213> Homo sapiens

<220>
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<222> (6)..(7)
<223> X=any amino acid

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<223> X=any amino acid

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<223> X=any amino acid

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<223> X=any amino acid

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<223> X=any amino acid

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<222> (45)..(45)
<223> X=any amino acid

<220>
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<222> (47)..(47)

<223> X=any amino acid

<400> 241

Met Val Lys Tyr Met Xaa Xaa Leu Xaa Leu Thr Pro Xaa Phe Ser Asn
1 5 10 15

Leu Leu Gly Thr Leu Lys Xaa Arg Lys Val Xaa Xaa Xaa Xaa Xaa Pro
20 25 30

Arg Lys Arg Asn Phe Xaa Xaa Xaa Pro Pro Xaa Leu Xaa Lys Xaa Arg
35 40 45

Cys His Phe Leu His Ile Asp Leu Gln Arg Val
50 55

<210> 242

<211> 55

<212> PRT

<213> Homo sapiens

<220>

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<222> (53)..(53)

<223> X=any amino acid

<400> 242

Met Val Ser Gly Val Gln Val Ser Leu His Lys Thr Lys Ile Lys Leu
1 5 10 15

Phe Asn Thr Gly Pro Thr Thr Leu Ile Tyr Gly Ala Asn Thr Cys Cys
20 25 30

Glu Pro Trp Gly Gln Gly Leu Gly Asp Lys Val Ala Thr Ile Phe Trp
35 40 45

Gly Val Gly Gly Xaa Gly Gly
50 55

<210> 243

<211> 75

<212> PRT

<213> Homo sapiens

<400> 243

Met Val Ile Thr Cys Val Leu Tyr Asp Ile Ser Ser Leu Lys Asn Leu
1 5 10 15

126

Arg His Ser Pro Phe Leu Gln Val Phe Phe Cys Val Cys Trp Lys Ile
20 25 30

Met Tyr Ile Phe Gln Leu Leu Asn Ala Ser Val Cys Ile Cys Ile Ser
35 40 45

Thr Lys Ser Lys Leu Leu Ile Leu Leu Phe Lys Leu Phe Ala Ser Tyr
50 55 60

Trp Phe Ser Leu Pro Thr Leu Cys Ile Asn Ser
65 70 75

<210> 244
<211> 17
<212> PRT
<213> Homo sapiens

<400> 244

Met Ser Trp Val Pro Cys Gly Cys Asp Phe Leu Arg Glu Ile Asn Leu
1 5 10 15

Phe

<210> 245
<211> 30
<212> PRT
<213> Homo sapiens

<400> 245

Met Tyr Val Ser Pro Asp Asn Ile Ser Gly Ser Gly Asn Cys Lys Lys
1 5 10 15

Lys Ile Gly Asn Gln Asn Ser Arg Lys Val Phe Leu Glu Gly
20 25 30

<210> 246
<211> 57
<212> PRT
<213> Homo sapiens

<400> 246

Arg Val Thr Met Asn Glu Lys Asp Asn Phe Met Asn Ala Glu Asn Leu
1 5 10 15

Gly Ile Val Phe Gly Pro Thr Leu Met Arg Pro Pro Glu Asp Ser Thr
20 25 30

127

Leu Thr Thr Leu His Asp Met Arg Tyr Gln Lys Leu Ile Val Gln Ile
35 40 45

Leu Ile Glu Asn Glu Asp Val Leu Phe
50 55

<210> 247
<211> 70
<212> PRT
<213> Homo sapiens

<220>
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<222> (38)..(38)
<223> X=any amino acid

<400> 247

Met Phe Ala Ser Leu Leu Ile Thr Asn Leu Leu Ser Thr Asn Glu Lys
1 5 10 15

Tyr Ile Gln Asp Leu Pro Phe Gln Arg Leu Ser Ile Tyr Glu Thr Asn
20 25 30

Ser Pro Phe Arg Leu Xaa Asn Phe Glu Asp Val Phe Ile Phe Leu Phe
35 40 45

Phe Leu Asn Lys Asn Cys Phe Leu Ser Arg Leu Phe Lys Ala Thr Cys
50 55 60

Val Lys Pro Leu Val Gln
65 70

<210> 248
<211> 36
<212> PRT
<213> Homo sapiens

<400> 248

Met Arg Arg Ala Arg Pro Pro Leu Phe Phe Leu His Ala Val Ser Ser
1 5 10 15

Pro Gly Gln Ile Leu Thr Ser Lys Asn Ala Val Phe Pro Ser Gly Ala
20 25 30

Gly Pro Val Met
35

<210> 249

128

<211> 26
<212> PRT
<213> Homo sapiens

<400> 249

Met Ser Leu Ser Phe Ser Leu His Ser Phe Tyr Arg Lys Ala Ile Leu
1 5 10 15

Gly Val Leu Gly His Phe Asp Ser Thr Ser
20 25

<210> 250
<211> 43
<212> PRT
<213> Homo sapiens

<220>
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<223> X=any amino acid

<400> 250

Met Ser Leu Pro Ser Xaa Arg Arg Gln Phe Ser Asp Ile Thr Cys Thr
1 5 10 15

Glu Ile His Tyr Asn Ala Thr Met Asn Gly Gln Ser Ser Thr Glu Lys
20 25 30

Ile Lys Gln Arg Met Ser Trp Lys Val Leu Trp
35 40